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Finite-Element Analysis of Steel–Concrete Composite Plate Girder. — K. Baskar, N. E. Shanmugam, and V. Thevendran; 128(9), 1158-68 (2002).

Experimental Study on Shear Splitting Failure of Full-Scale Composite Concrete Encased Steel Beams. — C. C. Weng, S. I. Yen, and M. H. Jiang; 128(9), 1186-94 (2002).

Cracking and Deformability of Concrete Flexural Sections with Fiber Reinforced Polymer. — John Newhook, Amin Ghali, and Gamil Tadros; 128(9), 1195-201 (2002).

Prediction of Interface Shear Stresses in Elastoplastic Moment-Varying Zones of Advanced Composite Material-Strengthened Concrete Members. — Wendel M. Sebastian; 128(9), 1212-21 (2002).

Concrete Constitutive Relationships Under Different Stress-Temperature Paths. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(12), 1511-8 (2002).

Concrete columns

Strength Models for Fiber-Reinforced Plastic-Confined Concrete. — L. Lam and J. G. Teng; 128(5), 612-23 (2002).

Shear Strength of Reinforced Concrete Columns Strengthened with Carbon-Fiber-Reinforced Plastic Sheet. — Lieping Ye, Qingrui Yue, Shuhong Zhao, and Quanwang Li; 128(12), 1527-34 (2002).

Concrete piles

Flexural Strength and Ductility of Extended Pile-Shafts. I: Analytical Model. — Y. H. Chai; 128(5), 586-94 (2002).

Flexural Strength and Ductility of Extended Pile-Shafts. II: Experimental Study. — Y. H. Chai and Tara C. Hutchinson; 128(5), 595-602 (2002).

Concrete slabs

Stud Shear Connection Design for Composite Concrete Slab and Wood Beams. — Piero Gelfi, Ezio Giuriani, and Alessandra Marini; 128(12), 1544-50 (2002).

Concrete structures

Evaluation of Efficiency Factor Models used in Strut-and-Tie Modeling of Nonflexural Members. — Stephen J. Foster and Adnan R. Malik; 128(5), 569-77 (2002).

Performance-Based Optimization for Strut-Tie Modeling of Structural Concrete. — Qing Quan Liang, Brian Uy, and Grant P. Steven; 128(6), 815-23 (2002).

Optimization of Elevated Concrete Foundations for Vibrating Machines. — Marcelo A. Silva, Jasbir S. Arora, Colby C. Swan, and Reyolando M. L. R. F. Brasil; 128(11), 1470-9 (2002).

Prestressing with Unbonded Internal or External Tendons: Analysis and Computer Model. — Nihal Ariyawardena and Amin Ghali; 128(12), 1493-501 (2002).

Concrete, prestressed

Transfer and Development Length of 15-mm Strand in High Performance Concrete Girders. — Lawrence F. Kahn, Jason C. Dill, and Chris G. Reutlinger; 128(7), 913-21 (2002).

Nonlinear Behavior of Posttensioned Hybrid Coupled Wall Subassemblages. — Qiang Shen and Yahya C. Kurama; 128(10), 1290-300 (2002).

Concrete, reinforced

Structural Damage Identification using Modal Data. II: Test Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 96-104 (2002).

Comparative Study of Seismic Behavior of Multistory Reinforced Concrete Framed Structures. — Yong Lu; 128(2), 169-78 (2002).

Structural Reliability of Multistory Buildings during Construction. — Deepthi C. Epaarachchi, Mark G. Stewart, and David V. Rosowsky; 128(2), 205-13 (2002).

Reinforced Concrete Frame Element with Bond Interfaces. I: Displacement-Based, Force-Based, and Mixed Formulations. — Suchart Limkatanyu and Enrico Spacone; 128(3), 346-55 (2002).

Reinforced Concrete Frame Element with Bond Interfaces. II: State Determinations and Numerical Validation. — Suchart Limkatanyu and Enrico Spacone; 128(3), 356-64 (2002).

Effect of Force-Temperature Paths on Behaviors of Reinforced Concrete Flexural Members. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(3), 365-73 (2002).

Distributed Structural Damage Generated by High-Frequency Ground Motion. — Guowei Ma, Hong Hao, Yong Lu, and Yingxin Zhou; 128(3), 390-9 (2002).

Empirical Investigation of Flexural Reinforced Concrete Elements with High Compression Reinforcement Ratios. — A. N. Dancygier and R. Eid; 128(5), 578-85 (2002).

Flexural Strength and Ductility of Extended Pile-Shafts. I: Analytical Model. — Y. H. Chai; 128(5), 586-94 (2002).

Flexural Strength and Ductility of Extended Pile-Shafts. II: Experimental Study. — Y. H. Chai and Tara C. Hutchinson; 128(5), 595-602 (2002).

Optimum Design of Multicellular Reinforced Concrete Box Docks. — Benjamín Suárez Arroyo, Alex D. Hanganu, and Juan Miquel Canet; 128(5), 603-11 (2002).

Sensitivities of Strength and Ductility of Plated Reinforced Concrete Sections to Preexisting Strains. — Wendel M. Sebastian; 128(5), 624-36 (2002).

Mechanical Model for Failure of Compressed Concrete in Reinforced Concrete Beams. — Alessandro P. Fantilli, Daniele Ferretti, Ivo Iori, and Paolo Vallini; 128(5), 637-45 (2002).

Failure Analysis of Reinforced Concrete Shell Structures using Layered Shell Element with Pressure Node. — Ha-Wong Song, Sang-Hyo Shim, Keun-Joo Byun, and Koichi Maekawa; 128(5), 655-64 (2002).

Behavior of Masonry-Infilled Nonductile Reinforced Concrete Frames. — Ghassan Al-Chaar, Mohsen Issa, and Steve Sweeney; 128(8), 1055-63 (2002).

Membrane Elements Subjected to In-Plane Shearing and Normal Stresses. — Khaldoun N. Rahal; 128(8), 1064-72 (2002).

Localization Analysis of Reinforced Concrete Members with Softening Behavior. — Ali R. Khaloo and Saeed Tariverdilo; 128(9), 1148-57 (2002).

Contributions of C. A. P. Turner to Development of Reinforced Concrete Flat Slabs 1905–1909. — D. A. Gasparini; 128(10), 1243-52 (2002).

Reinforcement Stability and Fracture of Cover Concrete in Reinforced Concrete Members. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(10), 1253-62 (2002).
Local Stresses and Crack Displacements in Reinforced Concrete Elements. — Yuichi Sato and Shigeru Fujii; 128(10), 1263-71 (2002).
Pushover of Hybrid Coupled Walls. I: Design and Modeling. — Sherif El-Tawil, Christopher M. Kuenzli, and Mohammad Hassan; 128(10), 1272-81 (2002).
Appraisal of Reciprocal Load Method for Reinforced Concrete Columns of Normal and High Strength Concrete. — W. Wang and H. P. Hong; 128(11), 1480-6 (2002).
Finite-Element Bond-Slip Model for Concrete Columns under Cyclic Loads. — Claire Girard and Josée Bastien; 128(12), 1502-10 (2002).
Strength Prediction for Discontinuity Regions by Softened Strut-and-Tie Model. — Shyh-Jiann Hwang and Hung-Jen Lee; 128(12), 1519-26 (2002).
Shear Strength of Reinforced Concrete Columns Strengthened with Carbon-Fiber-Reinforced Plastic Sheet. — Lieping Ye, Qingrui Yue, Shuhong Zhao, and Quanwang Li; 128(12), 1527-34 (2002).
Compressive Behavior of Carbon Fiber Reinforced Polymer-Confined Concrete in Elliptical Columns. — J. G. Teng and L. Lam; 128(12), 1535-43 (2002).

Confinement

Strength Models for Fiber-Reinforced Plastic-Confined Concrete. — L. Lam and J. G. Teng; 128(5), 612-23 (2002).
Compressive Behavior of Carbon Fiber Reinforced Polymer-Confined Concrete in Elliptical Columns. — J. G. Teng and L. Lam; 128(12), 1535-43 (2002).

Connections

Behavior of Screw Connections in Residential Construction. — R. A. LaBoube and M. A. Sokol; 128(1), 115-8 (2002).
Ductility Aspects in Nailed Glue Laminated Timber Connection Design. — Lars Stehn and Helena Johansson; 128(3), 382-9 (2002).
General Issues Influencing Connection Performance. — Charles W. Roeder; 128(4), 420-8 (2002).
Experimental Evaluation of Cyclically Loaded Reduced Beam Section Moment Connections. — Scott L. Jones, Gary T. Fry, and Michael D. Engelhardt; 128(4), 441-51 (2002).
Cyclic Response and Design Recommendations of Weak-Axis Reduced Beam Section Moment Connections. — Chad S. Gilton and Chia-Ming Uang; 128(4), 452-63 (2002).
Cyclic Response and Design Recommendations of Reduced Beam Section Moment Connections with Deep Columns. — Brandon Chi and Chia-Ming Uang; 128(4), 464-73 (2002).
Cover-Plate and Flange-Plate Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 474-82 (2002).
Experimental Evaluation of Plate-Reinforced Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 483-91 (2002).
Behavior of Extended End-Plate Moment Connections Subject to Cyclic Loading. — Emmett A. Sumner and Thomas M. Murray; 128(4), 501-8 (2002).
Seismic Performance Evaluation of Pre-Northridge Steel Frame Buildings with Brittle Connections. — Kihak Lee and Douglas A. Foutch; 128(4), 546-55 (2002).
Shear Stud Connections for the Development of Composite Action between Steel Girders and Fiber-Reinforced Polymer Bridge Decks. — F. L. Moon, II, D. A. Eckel, II, and J. W. Gillespie, Jr.; 128(6), 762-70 (2002).
Cyclic Pull-Out Strength of Screwed Connections in Steel Roof and Wall Cladding Systems using Thin Steel Battens. — M. Mahendran and D. Mahaarachchi; 128(6), 771-8 (2002).
Streamline Geometry Optimization in Beam-Column Connection. — Wu-bo Qi and Hiroaki Mimura; 128(6), 829-32 (2002).
Experimental Evaluation of Earthquake Resistant Posttensioned Steel Connections. — J. M. Ricles, R. Sause, S. W. Peng, and L. W. Lu; 128(7), 850-9 (2002).
Net Section Rupture in Tension Members with Connection Eccentricity. — James G. Orbison, Karl E. Barth, and Peter A. Bartels; 128(8), 976-85 (2002).
Posttensioned Energy Dissipating Connections for Moment-Resisting Steel Frames. — Constantin Christopoulos, Andre Filiatrault, Chia-Ming Uang, and Bryan Folz; 128(9), 1111-20 (2002).
Seismic Design of Rib-Reinforced Steel Moment Connections based on Equivalent Strut Model. — Cheol-Ho Lee; 128(9), 1121-9 (2002).
Pushover of Hybrid Coupled Walls. II: Analysis and Behavior. — Sherif El-Tawil and Christopher M. Kuenzli; 128(10), 1282-9 (2002).
Stud Shear Connection Design for Composite Concrete Slab and Wood Beams. — Piero Gelfi, Ezio Giuriani, and Alessandra Marini; 128(12), 1544-50 (2002).

Connections, bolted

Experimental Study of Bolted HSS Flange-Plate Connections in Axial Tension. — S. Willibald, J. A. Packer, and R. S. Puthli; 128(3), 328-36 (2002).
Inelastic Behavior of Bolted Flange Plate Connections. — Stephen P. Schneider and Itthinun Teeraparbwong; 128(4), 492-500 (2002).
Connection Performance for Seismic Design of Steel Moment Frames. — Charles W. Roeder; 128(4), 517-25 (2002).

Connections, welded

Inelastic Cyclic Testing of Welded Unreinforced Moment Connections. — James M. Ricles, Changshi Mao, Le-Wu Lu, and John W. Fisher; 128(4), 429-40 (2002).
Cyclic Testing of Moment Connections Upgraded with Weld Overlays. — James C. Anderson, Jean Duan, Yan Xiao, and Peter Maranian; 128(4), 509-16 (2002).
Connection Performance for Seismic Design of Steel Moment Frames. — Charles W. Roeder; 128(4), 517-25 (2002).
Fatigue Tests and Design of Welded T Connections in Thin Cold-Formed Square Hollow Sections Under In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao-Ling Zhao, and Paul Grundy; 128(11), 1413-22 (2002).

Constitutive relations

Concrete Constitutive Relationships Under Different Stress-Temperature Paths. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(12), 1511-8 (2002).

Construction

Behavior of Screw Connections in Residential Construction. — R. A. LaBoube and M. A. Sokol; 128(1), 115-8 (2002).
Structural Reliability of Multistory Buildings during Construction. — Deepthi C. Epaarachchi, Mark G. Stewart, and David V. Rosowsky; 128(2), 205-13 (2002).
Reliability-based Seismic Design of Wood Shear Walls. — David V. Rosowsky; 128(11), 1439-53 (2002).

Construction materials

Seismic Testing of Two-Story Woodframe House: Influence of Wall Finish Materials. — Andre Filiatrault, David Fischer, Bryan Folz, and Chia-Ming Uang; 128(10), 1337-45 (2002).

Construction methods

Construction Considerations for Composite Steel-and-Concrete Floor Systems. — Subcommitee on Composite Steel and Concrete Floor Systems; 128(9), 1099-110 (2002).

Coupled systems

Dynamic Vehicle Element Method for Transient Response of Coupled Vehicle-Structure Systems. — Tso-Chien Pan and Jing Li; 128(2), 214-23 (2002).
Redundancy in Residual Vectors for Missing Mass Effect in Coupled Modal Synthesis. — Jun Zhao and Abhinav Gupta; 128(9), 1231-5 (2002).

Coupled walls

Pushover of Hybrid Coupled Walls. I: Design and Modeling. — Sherif El-Tawil, Christopher M. Kuenzli, and Mohammad Hassan; 128(10), 1272-81 (2002).
Pushover of Hybrid Coupled Walls. II: Analysis and Behavior. — Sherif El-Tawil and Christopher M. Kuenzli; 128(10), 1282-9 (2002).
Nonlinear Behavior of Posttensioned Hybrid Coupled Wall Subassemblages. — Qiang Shen and Yahya C. Kurama; 128(10), 1290-300 (2002).

Coupling

Nonlinear Behavior of Posttensioned Hybrid Coupled Wall Subassemblages. — Qiang Shen and Yahya C. Kurama; 128(10), 1290-300 (2002).

Coverings

Cyclic Testing of Moment Connections Upgraded with Weld Overlays. — James C. Anderson, Jean Duan, Yan Xiao, and Peter Maranian; 128(4), 509-16 (2002).

Crack propagation

Analysis of Plane Stress Ductile Fracture Propagation by Simulating Necking. — Robert J. Dexter and Michael L. Gentilcore; 128(8), 1003-11 (2002).

Cracking

Effect of Surface Cracks on Rayleigh Wave Propagation: An Experimental Study. — A. Zerwer, M. A. Polak, and J. C. Santamarina; 128(2), 240-8 (2002).
Finite Element Analysis of Infilled Frames. — Asok K. Ghosh and Amde M. Amde; 128(7), 881-9 (2002).

Cracking and Deformability of Concrete Flexural Sections with Fiber Reinforced Polymer. — John Newhook, Amin Ghali, and Gamil Tadros; 128(9), 1195-201 (2002).
Local Stresses and Crack Displacements in Reinforced Concrete Elements. — Yuichi Sato and Shigeru Fujii; 128(10), 1263-71 (2002).
Probabilistic Crack Prediction for Masonry Structures on Expansive Soils. — Mark J. Masia, Robert E. Melchers, and Peter W. Kleeman; 128(11), 1454-61 (2002).

Critical loads
Stability of Elastomeric Isolation Bearings: Experimental Study. — Ian Buckle, Satish Nagarajaiah, and Keith Ferrell; 128(1), 3-11 (2002).

Cross sections
Seismic Performance of Rectangular Hollow Bridge Columns. — Y.-K. Yeh, Y. L. Mo, and C. Y. Yang; 128(1), 60-8 (2002).

Curvature
Second-Order Third-Moment Reliability Method. — Yan-Gang Zhao, Tetsuro Ono, and Masahiro Kato; 128(8), 1087-90 (2002).

Curved beams
New Concept to Include Shear Deformation in a Curved Beam Element. — A. H. Sheikh; 128(3), 406-10 (2002).

Cyclic loads
Performance-Based Seismic Design of Wood Framed Buildings. — Andre Filiatrault and Bryan Folz; 128(1), 39-47 (2002).
Behavior of Extended End-Plate Moment Connections Subject to Cyclic Loading. — Emmett A. Sumner and Thomas M. Murray; 128(4), 501-8 (2002).
Void-Filled Cold-Formed Rectangular Hollow Section Braces Subjected to Large Deformation Cyclic Axial Loading. — Xiao-Ling Zhao, Raphael Grzebieta, and Chen Lee; 128(6), 746-53 (2002).
Cyclic Behavior of Perforated Stiffened Plates under Axial Forces. — K. Fujii; 128(6), 779-87 (2002).
Parameters Influencing Performance of Elastomeric Bearings at Low Temperatures. — Ahmet Yakut and Joseph A. Yura; 128(8), 986-94 (2002).
Strength and Ductility of Steel Box Girders under Cyclic Shear. — Praween Chusilp and Tsutomu Usami; 128(9), 1130-8 (2002).
Lateral Instability and Lateral Bracing of Steel Beams Subjected to Cyclic Loading. — Masayoshi Nakashima, Iori Kanao, and Dawei Liu; 128(10), 1308-16 (2002).
Fatigue Tests and Design of Welded T Connections in Thin Cold-Formed Square Hollow Sections Under In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao-Ling Zhao, and Paul Grundy; 128(11), 1413-22 (2002).

Cyclic tests
Inelastic Cyclic Testing of Welded Unreinforced Moment Connections. — James M. Ricles, Changshi Mao, Le-Wu Lu, and John W. Fisher; 128(4), 429-40 (2002).
Cyclic Testing of Moment Connections Upgraded with Weld Overlays. — James C. Anderson, Jean Duan, Yan Xiao, and Peter Maranian; 128(4), 509-16 (2002).

Damage
Structural Damage Identification using Modal Data. I: Simulation Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 87-95 (2002).
Structural Damage Identification using Modal Data. II: Test Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 96-104 (2002).

Damage assessment
Distributed Structural Damage Generated by High-Frequency Ground Motion. — Guowei Ma, Hong Hao, Yong Lu, and Yingxin Zhou; 128(3), 390-9 (2002).
Analyses of Masonry Vaults: A Macro Approach based on Three-Dimensional Damage Model. — Giuseppe Creazza, Renato Matteazzi, Anna Saetta, and Renato Vitaliani; 128(5), 646-54 (2002).
Experimental Investigation of System-Identification-Based Damage Assessment on Structures. — Jeong-Hwan Jang, Inho Yeo, Soobong Shin, and Sung-Pil Chang; 128(5), 673-82 (2002).
Condition and Damage Assessment: Issues and Some Promising Indices. — F. Necati Catbas and A. Emin Aktan; 128(8), 1026-36 (2002).
Structural Damage Assessment Based on Wavelet Packet Transform. — Z. Sun and C. C. Chang; 128(10), 1354-61 (2002).

Dampers
Neural Network Emulation of Inverse Dynamics for a Magnetorheological Damper. — Chih-Chen Chang and Li Zhou; 128(2), 231-9 (2002).

Damping
New Elastic Stability Formulas for Multiple-Stiffened Shear Panels. — Praween Chusilp and Tsutomu Usami; 128(6), 833-6 (2002).
Wind-Induced Vibration and Control of Trans-Tokyo Bay Crossing Bridge. — Yozo Fujino and Yoshitaka Yoshida; 128(8), 1012-25 (2002).
Experimental Verification of Seismic Response of Building Frame with Adaptive Sliding Base-Isolation System. — Glenn J. Madden, Michael D. Symans, and Nat Wongprasert; 128(8), 1037-45 (2002).
Further Characteristics for Multiple Tuned Mass Dampers. — Chunxiang Li and Yanxia Liu; 128(10), 1362-5 (2002).

Dams
Seismic Behavior of Post-Tensioned Gravity Dams: Shake Table Experiments and Numerical Simulations. — Philippe B. Morin, Pierre Léger, and René Tinawi; 128(2), 140-52 (2002).

Database
Database-Assisted Wind Load Capacity Estimates for Low-Rise Steel Frames. — Seokkwon Jang, Le-Wu Lu, Fahim Sadek, and Emil Simiu; 128(12), 1594-603 (2002).

Dead loads
Size Effect Hidden in Excessive Dead Load Factor. — Zdeněk P. Bažant and Dan M. Frangopol; 128(1), 80-6 (2002).

Decomposition
Structural Damage Assessment Based on Wavelet Packet Transform. — Z. Sun and C. C. Chang; 128(10), 1354-61 (2002).

Deflection
Approximate Evaluation of Deflection Amplification Factor. — R. Karami Mohammadi; 128(2), 179-87 (2002).
Deflection of Nested Cold-Formed Steel Z-Section Beams. — Ahmad Ali Ghosn; 128(11), 1423-8 (2002).

Deformation
Analytical Method for Calculation of Deformations and Stresses of Wall Plates of Dry Gas Holders Under Pressure. — L. H. You, J. J. Zhang, H. B. Wu, and R. B. Sun; 128(1), 125-8 (2002).
Experimental Behavior of High Strength Square Concrete-Filled Steel Tube Beam-Columns. — Amit H. Varma, James M. Ricles, Richard Sause, and Le-Wu Lu; 128(3), 309-18 (2002).
Modeling for Postyield Buckling of Reinforcement. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(9), 1139-47 (2002).
Bending Behavior of Composite Girders with Cold Formed Steel U Section. — Shun-ichi Nakamura; 128(9), 1169-76 (2002).
Web Crippling Behavior of Floor Joist/Rim Members in Built Assemblies. — R. L. Serrette; 128(9), 1177-85 (2002).
Cracking and Deformability of Concrete Flexural Sections with Fiber Reinforced Polymer. — John Newhook, Amin Ghali, and Gamil Tadros; 128(9), 1195-201 (2002).
Reinforcement Stability and Fracture of Cover Concrete in Reinforced Concrete Members. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(10), 1253-62 (2002).
Collapse Analysis: Large Inelastic Deformations Analysis of Planar Frames. — Mettupalayam V. Sivaselvan and Andrei M. Reinhorn; 128(12), 1575-83 (2002).

Design
Assessment of Strength Equations for Overlapped Tubular *K*-Joints. — Fabio Gazzola and Marcus M. K. Lee; 128(1), 119-24 (2002).
Optimal Design of Latticed Towers Subjected to Earthquake Loading. — Fatma Y. Kocer and Jasbir S. Arora; 128(2), 197-204 (2002).
Optimum Design of Multicellular Reinforced Concrete Box Docks. — Benjamín Suárez Arroyo, Alex D. Hanganu, and Juan Miquel Canet; 128(5), 603-11 (2002).
Pushover of Hybrid Coupled Walls. I: Design and Modeling. — Sherif El-Tawil, Christopher M. Kuenzli, and Mohammad Hassan; 128(10), 1272-81 (2002).
Optimization of Elevated Concrete Foundations for Vibrating Machines. — Marcelo A. Silva, Jasbir S. Arora, Colby C. Swan, and Reyolando M. L. R. F. Brasil; 128(11), 1470-9 (2002).

Design criteria
Cyclic Response and Design Recommendations of Weak-Axis Reduced Beam Section Moment Connections. — Chad S. Gilton and Chia-Ming Uang; 128(4), 452-63 (2002).
Cyclic Response and Design Recommendations of Reduced Beam Section Moment Connections with Deep Columns. — Brandon Chi and Chia-Ming Uang; 128(4), 464-73 (2002).

Design modifications
Structural Reanalysis using a Neural Network-based Iterative Method. — W. M. Jenkins; 128(7), 946-50 (2002).

Discontinuities
Strength Prediction for Discontinuity Regions by Softened Strut-and-Tie Model. — Shyh-Jiann Hwang and Hung-Jen Lee; 128(12), 1519-26 (2002).

Discrete elements
Optimal Design of Latticed Towers Subjected to Earthquake Loading. — Fatma Y. Kocer and Jasbir S. Arora; 128(2), 197-204 (2002).
Elastic Flexural-Torsional Buckling of Discretely Restrained Arches. — Mark Andrew Bradford and Yong-Lin Pi; 128(6), 719-27 (2002).

Displacement
Pushover of Hybrid Coupled Walls. II: Analysis and Behavior. — Sherif El-Tawil and Christopher M. Kuenzli; 128(10), 1282-9 (2002).

Docks
Optimum Design of Multicellular Reinforced Concrete Box Docks. — Benjamín Suárez Arroyo, Alex D. Hanganu, and Juan Miquel Canet; 128(5), 603-11 (2002).

Domes, structural
Special Structures: Past, Present, and Future. — Richard Bradshaw, David Campbell, Mousa Gargari, Amir Mirmiran, and Patrick Tripeny; 128(6), 691-709 (2002).

Drift
Approximate Evaluation of Deflection Amplification Factor. — R. Karami Mohammadi; 128(2), 179-87 (2002).
Approximate Lateral Drift Demands in Multistory Buildings with Nonuniform Stiffness. — Eduardo Miranda and Carlos J. Reyes; 128(7), 840-9 (2002).
Closer Look at the Drift Demand Spectrum. — Juwhan Kim and Kevin R. Collins; 128(7), 942-5 (2002).

Ductility
Seismic Performance of Rectangular Hollow Bridge Columns. — Y.-K. Yeh, Y. L. Mo, and C. Y. Yang; 128(1), 60-8 (2002).
Approximate Evaluation of Deflection Amplification Factor. — R. Karami Mohammadi; 128(2), 179-87 (2002).
Ductility Aspects in Nailed Glue Laminated Timber Connection Design. — Lars Stehn and Helena Johansson; 128(3), 382-9 (2002).
Inelastic Cyclic Testing of Welded Unreinforced Moment Connections. — James M. Ricles, Changshi Mao, Le-Wu Lu, and John W. Fisher; 128(4), 429-40 (2002).
Flexural Strength and Ductility of Extended Pile-Shafts. I: Analytical Model. — Y. H. Chai; 128(5), 586-94 (2002).
Flexural Strength and Ductility of Extended Pile-Shafts. II: Experimental Study. — Y. H. Chai and Tara C. Hutchinson; 128(5), 595-602 (2002).
Sensitivities of Strength and Ductility of Plated Reinforced Concrete Sections to Preexisting Strains. — Wendel M. Sebastian; 128(5), 624-36 (2002).
Mechanical Model for Failure of Compressed Concrete in Reinforced Concrete Beams. — Alessandro P. Fantilli, Daniele Ferretti, Ivo Iori, and Paolo Vallini; 128(5), 637-45 (2002).
Experimental Evaluation of Earthquake Resistant Posttensioned Steel Connections. — J. M. Ricles, R. Sause, S. W. Peng, and L. W. Lu; 128(7), 850-9 (2002).
Capacity of Oriented Strand Board Shear Walls with Overdriven Sheathing Nails. — Scott N. Jones and Fernando S. Fonseca; 128(7), 898-907 (2002).
Strength and Ductility of Steel Box Girders under Cyclic Shear. — Praween Chusilp and Tsutomu Usami; 128(9), 1130-8 (2002).

Durability
Performance-Based Engineering of Wood Frame Housing: Fragility Analysis Methodology. — David V. Rosowsky and Bruce R. Ellingwood; 128(1), 32-8 (2002).

Dynamic characteristics
Structural Damage Identification using Modal Data. I: Simulation Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 87-95 (2002).

Dynamic loads
Optimization of Elevated Concrete Foundations for Vibrating Machines. — Marcelo A. Silva, Jasbir S. Arora, Colby C. Swan, and Reyolando M. L. R. F. Brasil; 128(11), 1470-9 (2002).

Dynamic properties
Wind Sensitivity of Recycled Plastic Soundwalls. — Steven T. Esche and Paul N. Roschke; 128(11), 1462-9 (2002).

Dynamics
Along-Wind Load Effects on Tall Buildings: Comparative Study of Major International Codes and Standards. — Yin Zhou, Tracy Kijewski, and Ahsan Kareem; 128(6), 788-96 (2002).

Earthquake engineering
Closer Look at the Drift Demand Spectrum. — Juwhan Kim and Kevin R. Collins; 128(7), 942-5 (2002).
Reliability-based Seismic Design of Wood Shear Walls. — David V. Rosowsky; 128(11), 1439-53 (2002).

Earthquake excitation
Robust Building Stiffness Design for Variable Critical Excitations. — Izuru Takewaki; 128(12), 1565-74 (2002).

Earthquake loads
Optimal Design of Latticed Towers Subjected to Earthquake Loading. — Fatma Y. Kocer and Jasbir S. Arora; 128(2), 197-204 (2002).

Earthquake resistance structures
Earthquake Resistant Design of Structures using the Variable Frequency Pendulum Isolator. — Pranesh Murnal and Ravi Sinha; 128(7), 870-80 (2002).
Energy-based Seismic Design of Structures using Yield Mechanism and Target Drift. — Sutat Leelataviwat, Subhash C. Goel, and Božidar Stojadinović; 128(8), 1046-54 (2002).

Earthquakes
Performance-Based Seismic Design of Wood Framed Buildings. — Andre Filiatrault and Bryan Folz; 128(1), 39-47 (2002).
Active Interaction Control of Tall Buildings Subjected to Near-Field Ground Motions. — Yunfeng Zhang and Wilfred D. Iwan; 128(1), 69-79 (2002).
Arching in Masonry Walls Subjected to Earthquake Motions. — Athanasios Dafnis, Holger Kolsch, and Hans-Günter Reimerdes; 128(2), 153-9 (2002).
Approximate Evaluation of Deflection Amplification Factor. — R. Karami Mohammadi; 128(2), 179-87 (2002).
Aseismic Roof Isolation System: Feasibility Study with 13-Story Building. — Roberto Villaverde; 128(2), 188-96 (2002).
General Issues Influencing Connection Performance. — Charles W. Roeder; 128(4), 420-8 (2002).
Cyclic Response and Design Recommendations of Reduced Beam Section Moment Connections with Deep Columns. — Brandon Chi and Chia-Ming Uang; 128(4), 464-73 (2002).
Connection Performance for Seismic Design of Steel Moment Frames. — Charles W. Roeder; 128(4), 517-25 (2002).
Seismic Performance Evaluation for Steel Moment Frames. — Seung-Yul Yun, Ronald O. Hamburger, C. Allin Cornell, and Douglas A. Foutch; 128(4), 534-45 (2002).
Seismic Performance Evaluation of Pre-Northridge Steel Frame Buildings with Brittle Connections. — Kihak Lee and Douglas A. Foutch; 128(4), 546-55 (2002).
Effect of Pounding and Restrainers on Seismic Response of Multiple-Frame Bridges. — Reginald DesRoches and Susendar Muthukumar; 128(7), 860-9 (2002).

Eccentricity
Net Section Rupture in Tension Members with Connection Eccentricity. — James G. Orbison, Karl E. Barth, and Peter A. Bartels; 128(8), 976-85 (2002).

Edge effect
Buckling of Unidirectionally Loaded Composite Plates with One Free and One Rotationally Restrained Unloaded Edge. — László P. Kollár; 128(9), 1202-11 (2002).

Elastic analysis
Closer Look at the Drift Demand Spectrum. — Juwhan Kim and Kevin R. Collins; 128(7), 942-5 (2002).
Moment Capacities of Steel Angle Sections. — N. S. Trahair; 128(11), 1387-93 (2002).
Bearing, Shear, and Torsion Capacities of Steel Angle Sections. — N. S. Trahair; 128(11), 1394-8 (2002).

Elastic restraints
Elastic Flexural-Torsional Buckling of Discretely Restrained Arches. — Mark Andrew Bradford and Yong-Lin Pi; 128(6), 719-27 (2002).

Elastica
Stability Tests of Sandwich Composite Elastica Arches. — Amde M. Amde, Amir Mirmiran, and David Nelsen; 128(5), 683-6 (2002).

Elastomer
Test Method for Determining the Shear Modulus of Elastomeric Bearings. — Cem Topkaya and Joseph A. Yura; 128(6), 797-805 (2002).
Parameters Influencing Performance of Elastomeric Bearings at Low Temperatures. — Ahmet Yakut and Joseph A. Yura; 128(8), 986-94 (2002).
Evaluation of Elastomeric Bearing Performance at Low Temperatures. — Ahmet Yakut and Joseph A. Yura; 128(8), 995-1002 (2002).

Elastoplasticity
Prediction of Interface Shear Stresses in Elastoplastic Moment-Varying Zones of Advanced Composite Material-Strengthened Concrete Members. — Wendel M. Sebastian; 128(9), 1212-21 (2002).
Robust Building Stiffness Design for Variable Critical Excitations. — Izuru Takewaki; 128(12), 1565-74 (2002).

Elevated structures
Hysteretic Modeling of Thin-Walled Circular Steel Columns under Biaxial Bending. — Lizhi Jiang, Yoshiaki Goto, and Makoto Obata; 128(3), 319-27 (2002).

Energy dissipation
Experimental Evaluation of Earthquake Resistant Posttensioned Steel Connections. — J. M. Ricles, R. Sause, S. W. Peng, and L. W. Lu; 128(7), 850-9 (2002).
Posttensioned Energy Dissipating Connections for Moment-Resisting Steel Frames. — Constantin Christopoulos, Andre Filiatrault, Chia-Ming Uang, and Bryan Folz; 128(9), 1111-20 (2002).

Energy methods
Energy-based Seismic Design of Structures using Yield Mechanism and Target Drift. — Sutat Leelataviwat, Subhash C. Goel, and Božidar Stojadinović; 128(8), 1046-54 (2002).

Errors
Error Indicator to Assess Quality of Finite-Element Frame Analyses. — Shahrokh Ghavamian, Gilles Pijaudier-Cabot, and Jacky Mazars; 128(1), 129-32 (2002).

Evaluation
Seismic Evaluation of Gravity-Load-Designed Column-Grid System. — Khalid M. Mosalam and Clay J. Naito; 128(2), 160-8 (2002).
Experimental Evaluation of Cyclically Loaded Reduced Beam Section Moment Connections. — Scott L. Jones, Gary T. Fry, and Michael D. Engelhardt; 128(4), 441-51 (2002).
Experimental Evaluation of Plate-Reinforced Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 483-91 (2002).
Evaluation of Efficiency Factor Models used in Strut-and-Tie Modeling of Nonflexural Members. — Stephen J. Foster and Adnan R. Malik; 128(5), 569-77 (2002).

Excitation
Seismic Critical Excitation Method for Robust Design: A Review. — Izuru Takewaki; 128(5), 665-72 (2002).
Performance Evaluation of Controlled Steel Frames under Multilevel Seismic Loads. — Luciana R. Barroso, Scott E. Breneman, and H. Allison Smith; 128(11), 1368-78 (2002).

Experimentation
Stability of Elastomeric Isolation Bearings: Experimental Study. — Ian Buckle, Satish Nagarajaiah, and Keith Ferrell; 128(1), 3-11 (2002).
Experimental Behavior of High Strength Square Concrete-Filled Steel Tube Beam-Columns. — Amit H. Varma, James M. Ricles, Richard Sause, and Le-Wu Lu; 128(3), 309-18 (2002).
Experimental Study of Bolted HSS Flange-Plate Connections in Axial Tension. — S. Willibald, J. A. Packer, and R. S. Puthli; 128(3), 328-36 (2002).
Flexural Strength and Ductility of Extended Pile-Shafts. II: Experimental Study. — Y. H. Chai and Tara C. Hutchinson; 128(5), 595-602 (2002).
Experimental Investigation of System-Identification-Based Damage Assessment on Structures. — Jeong-Hwan Jang, Inho Yeo, Soobong Shin, and Sung-Pil Chang; 128(5), 673-82 (2002).

Explosions
Distributed Structural Damage Generated by High-Frequency Ground Motion. — Guowei Ma, Hong Hao, Yong Lu, and Yingxin Zhou; 128(3), 390-9 (2002).

Fabrics
Special Structures: Past, Present, and Future. — Richard Bradshaw, David Campbell, Mousa Gargari, Amir Mirmiran, and Patrick Tripeny; 128(6), 691-709 (2002).

Failure investigations
Failure Analysis of Reinforced Concrete Shell Structures using Layered Shell Element with Pressure Node. — Ha-Wong Song, Sang-Hyo Shim, Keun-Joo Byun, and Koichi Maekawa; 128(5), 655-64 (2002).

Failure load
Finite Element Analysis of Infilled Frames. — Asok K. Ghosh and Amde M. Amde; 128(7), 881-9 (2002).
Concentrated Load Capacity and Stiffness of Oriented Strand Board: Calculation versus Test. — W. H. Thomas; 128(7), 908-12 (2002).

Failure modes
Reliability Assessment of Pile Groups in Sands. — Khaled H. Eloseily, Bilal M. Ayyub, and Robert Patev; 128(10), 1346-53 (2002).
Fatigue Tests and Design of Welded T Connections in Thin Cold-Formed Square Hollow Sections Under In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao-Ling Zhao, and Paul Grundy; 128(11), 1413-22 (2002).

Failures
Membrane Elements Subjected to In-Plane Shearing and Normal Stresses. — Khaldoun N. Rahal; 128(8), 1064-72 (2002).
Second-Order Third-Moment Reliability Method. — Yan-Gang Zhao, Tetsuro Ono, and Masahiro Kato; 128(8), 1087-90 (2002).

Fasteners
Net Section Efficiency of Steel Coupons with Power Actuated Fasteners. — Hermann Beck and Michael D. Engelhardt; 128(1), 12-21 (2002).

Fatigue tests
Fatigue Tests and Design of Thin Cold-Formed Square Hollow Section-to-Plate *T* Connections Under Cyclic In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao Ling Zhao, and Paul Grundy; 128(1), 22-31 (2002).

Fiber reinforced materials
Strength Models for Fiber-Reinforced Plastic-Confined Concrete. — L. Lam and J. G. Teng; 128(5), 612-23 (2002).
Shear Stud Connections for the Development of Composite Action between Steel Girders and Fiber-Reinforced Polymer Bridge Decks. — F. L. Moon, II, D. A. Eckel, II, and J. W. Gillespie, Jr.; 128(6), 762-70 (2002).
Cracking and Deformability of Concrete Flexural Sections with Fiber Reinforced Polymer. — John Newhook, Amin Ghali, and Gamil Tadros; 128(9), 1195-201 (2002).

Fiber reinforced plastics
Shear Strength of Reinforced Concrete Columns Strengthened with Carbon-Fiber-Reinforced Plastic Sheet. — Lieping Ye, Qingrui Yue, Shuhong Zhao, and Quanwang Li; 128(12), 1527-34 (2002).

Fills
Behavior of Masonry-Infilled Nonductile Reinforced Concrete Frames. — Ghassan Al-Chaar, Mohsen Issa, and Steve Sweeney; 128(8), 1055-63 (2002).

Finite element method
Structural Damage Identification using Modal Data. I: Simulation Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 87-95 (2002).
Structural Damage Identification using Modal Data. II: Test Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 96-104 (2002).
Visco-Elasto-Plastic Analysis of Steel Frames in Fire. — K. H. Tan, S. K. Ting, and Z. F. Huang; 128(1), 105-14 (2002).
Behavior of Intermediate Transverse Stiffeners Attached on Web Panels. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(3), 337-45 (2002).
T-Bracing for Stability of Compression Webs in Wood Trusses. — Robert Leichti, Isabelle Hofacker, Ping Cheng, and Thomas McLain; 128(3), 374-81 (2002).
Cyclic Response and Design Recommendations of Weak-Axis Reduced Beam Section Moment Connections. — Chad S. Gilton and Chia-Ming Uang; 128(4), 452-63 (2002).
Analyses of Masonry Vaults: A Macro Approach based on Three-Dimensional Damage Model. — Giuseppe Creazza, Renato Matteazzi, Anna Saetta, and Renato Vitaliani; 128(5), 646-54 (2002).
Failure Analysis of Reinforced Concrete Shell Structures using Layered Shell Element with Pressure Node. — Ha-Wong Song, Sang-Hyo Shim, Keun-Joo Byun, and Koichi Maekawa; 128(5), 655-64 (2002).
Performance-Based Optimization for Strut-Tie Modeling of Structural Concrete. — Qing Quan Liang, Brian Uy, and Grant P. Steven; 128(6), 815-23 (2002).
Finite Element Analysis of Infilled Frames. — Asok K. Ghosh and Amde M. Amde; 128(7), 881-9 (2002).
Evaluation of Simplified Models for Lateral Load Analysis of Unreinforced Masonry Buildings. — Andreas J. Kappos, Gregory G. Penelis, and Christos G. Drakopoulos; 128(7), 890-7 (2002).
Formula for Stiffness of Bolted-Joint Members with Sleeve and Its Applications. — Y. D. Kwon, Nam Seo Goo, T. H. Yun, and J. K. Park; 128(7), 951-5 (2002).
Mechanical Behavior of Circular Steel–Concrete Composite Stub Columns. — Mathias Johansson and Kent Gylltoft; 128(8), 1073-81 (2002).
Seismic Design of Rib-Reinforced Steel Moment Connections based on Equivalent Strut Model. — Cheol-Ho Lee; 128(9), 1121-9 (2002).
Finite-Element Analysis of Steel–Concrete Composite Plate Girder. — K. Baskar, N. E. Shanmugam, and V. Thevendran; 128(9), 1158-68 (2002).
Axial Load Behavior of Stiffened Concrete-Filled Steel Columns. — C. S. Huang, Y.-K. Yeh, G.-Y. Liu, H.-T. Hu, K. C. Tsai, Y. T. Weng, S. H. Wang, and M.-H. Wu; 128(9), 1222-30 (2002).
Analysis of Shear Lag Anomaly in Box Girders. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(11), 1379-86 (2002).

Finite-Element Bond-Slip Model for Concrete Columns under Cyclic Loads. — Claire Girard and Josée Bastien; 128(12), 1502-10 (2002).
Database-Assisted Wind Load Capacity Estimates for Low-Rise Steel Frames. — Seokkwon Jang, Le-Wu Lu, Fahim Sadek, and Emil Simiu; 128(12), 1594-603 (2002).
Alternative Approach for Free Vibration of Beams Carrying A Number of Two-Degree of Freedom Spring-Mass Systems. — Jia-Jang Wu; 128(12), 1604-16 (2002).

Finite elements
Error Indicator to Assess Quality of Finite-Element Frame Analyses. — Shahrokh Ghavamian, Gilles Pijaudier-Cabot, and Jacky Mazars; 128(1), 129-32 (2002).
Reinforced Concrete Frame Element with Bond Interfaces. I: Displacement-Based, Force-Based, and Mixed Formulations. — Suchart Limkatanyu and Enrico Spacone; 128(3), 346-55 (2002).
Reinforced Concrete Frame Element with Bond Interfaces. II: State Determinations and Numerical Validation. — Suchart Limkatanyu and Enrico Spacone; 128(3), 356-64 (2002).

Fire resistance
Effect of Force-Temperature Paths on Behaviors of Reinforced Concrete Flexural Members. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(3), 365-73 (2002).
Advanced Analysis for Performance-based Design of Steel Structures Exposed to Fires. — J. Y. Richard Liew, L. K. Tang, and Y. S. Choo; 128(12), 1584-93 (2002).

Flanges
Cover-Plate and Flange-Plate Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 474-82 (2002).
Experimental Evaluation of Plate-Reinforced Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 483-91 (2002).
Inelastic Behavior of Bolted Flange Plate Connections. — Stephen P. Schneider and Itthinun Teeraparbwong; 128(4), 492-500 (2002).

Flexural strength
Flexural Strength and Ductility of Extended Pile-Shafts. I: Analytical Model. — Y. H. Chai; 128(5), 586-94 (2002).
Flexural Strength and Ductility of Extended Pile-Shafts. II: Experimental Study. — Y. H. Chai and Tara C. Hutchinson; 128(5), 595-602 (2002).
Sensitivities of Strength and Ductility of Plated Reinforced Concrete Sections to Preexisting Strains. — Wendel M. Sebastian; 128(5), 624-36 (2002).

Flexure
Evaluation of Efficiency Factor Models used in Strut-and-Tie Modeling of Nonflexural Members. — Stephen J. Foster and Adnan R. Malik; 128(5), 569-77 (2002).
Empirical Investigation of Flexural Reinforced Concrete Elements with High Compression Reinforcement Ratios. — A. N. Dancygier and R. Eid; 128(5), 578-85 (2002).

Floors
Concentrated Load Capacity and Stiffness of Oriented Strand Board: Calculation versus Test. — W. H. Thomas; 128(7), 908-12 (2002).

Foundations
Simplified Analysis of Layered Soil-Structure Interaction. — L. T. Stavridis; 128(2), 224-30 (2002).
Methodology to Evaluate First Transition Foundation Stiffness for Columns on Winkler Foundation. — G. Venkateswara Rao and R. Neetha; 128(7), 956-9 (2002).

Fracture strength
Net Section Efficiency of Steel Coupons with Power Actuated Fasteners. — Hermann Beck and Michael D. Engelhardt; 128(1), 12-21 (2002).

Fractures
Streamline Geometry Optimization in Beam-Column Connection. — Wu·bo Qi and Hiroaki Mimura; 128(6), 829-32 (2002).
Analysis of Plane Stress Ductile Fracture Propagation by Simulating Necking. — Robert J. Dexter and Michael L. Gentilcore; 128(8), 1003-11 (2002).
Reinforcement Stability and Fracture of Cover Concrete in Reinforced Concrete Members. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(10), 1253-62 (2002).

Frame design
Fully Stressed Design of Frame Structures and Multiple Load Paths. — Keith M. Mueller, Min Liu, and Scott A. Burns; 128(6), 806-14 (2002).

Framed structures
Performance-Based Seismic Design of Wood Framed Buildings. — Andre Filiatrault and Bryan Folz; 128(1), 39-47 (2002).
Seismic Performance Evaluation of Pre-Northridge Steel Frame Buildings with Brittle Connections. — Kihak Lee and Douglas A. Foutch; 128(4), 546-55 (2002).
Fully Stressed Design of Frame Structures and Multiple Load Paths. — Keith M. Mueller, Min Liu, and Scott A. Burns; 128(6), 806-14 (2002).
Reliability-based Seismic Design of Wood Shear Walls. — David V. Rosowsky; 128(11), 1439-53 (2002).
Collapse Analysis: Large Inelastic Deformations Analysis of Planar Frames. — Mettupalayam V. Sivaselvan and Andrei M. Reinhorn; 128(12), 1575-83 (2002).

Frames
Error Indicator to Assess Quality of Finite-Element Frame Analyses. — Shahrokh Ghavamian, Gilles Pijaudier-Cabot, and Jacky Mazars; 128(1), 129-32 (2002).
Reinforced Concrete Frame Element with Bond Interfaces. I: Displacement-Based, Force-Based, and Mixed Formulations. — Suchart Limkatanyu and Enrico Spacone; 128(3), 346-55 (2002).
Reinforced Concrete Frame Element with Bond Interfaces. II: State Determinations and Numerical Validation. — Suchart Limkatanyu and Enrico Spacone; 128(3), 356-64 (2002).
Finite Element Analysis of Infilled Frames. — Asok K. Ghosh and Amde M. Amde; 128(7), 881-9 (2002).
Behavior of Masonry-Infilled Nonductile Reinforced Concrete Frames. — Ghassan Al-Chaar, Mohsen Issa, and Steve Sweeney; 128(8), 1055-63 (2002).

Friction
Local Stresses and Crack Displacements in Reinforced Concrete Elements. — Yuichi Sato and Shigeru Fujii; 128(10), 1263-71 (2002).

Geometry
Streamline Geometry Optimization in Beam-Column Connection. — Wu·bo Qi and Hiroaki Mimura; 128(6), 829-32 (2002).

Girders
Shear Stud Connections for the Development of Composite Action between Steel Girders and Fiber-Reinforced Polymer Bridge Decks. — F. L. Moon, II, D. A. Eckel, II, and J. W. Gillespie, Jr.; 128(6), 762-70 (2002).
Transfer and Development Length of 15-mm Strand in High Performance Concrete Girders. — Lawrence F. Kahn, Jason C. Dill, and Chris G. Reutlinger; 128(7), 913-21 (2002).
Construction Considerations for Composite Steel-and-Concrete Floor Systems. — Subcommitee on Composite Steel and Concrete Floor Systems; 128(9), 1099-110 (2002).
Finite-Element Analysis of Steel–Concrete Composite Plate Girder. — K. Baskar, N. E. Shanmugam, and V. Thevendran; 128(9), 1158-68 (2002).
Bending Behavior of Composite Girders with Cold Formed Steel U Section. — Shun-ichi Nakamura; 128(9), 1169-76 (2002).

Glue laminated materials
Ductility Aspects in Nailed Glue Laminated Timber Connection Design. — Lars Stehn and Helena Johansson; 128(3), 382-9 (2002).

Gravity
Seismic Behavior of Post-Tensioned Gravity Dams: Shake Table Experiments and Numerical Simulations. — Philippe B. Morin, Pierre Léger, and René Tinawi; 128(2), 140-52 (2002).

Gravity loads
Seismic Evaluation of Gravity-Load-Designed Column-Grid System. — Khalid M. Mosalam and Clay J. Naito; 128(2), 160-8 (2002).

Grid systems
Seismic Evaluation of Gravity-Load-Designed Column-Grid System. — Khalid M. Mosalam and Clay J. Naito; 128(2), 160-8 (2002).
Special Structures: Past, Present, and Future. — Richard Bradshaw, David Campbell, Mousa Gargari, Amir Mirmiran, and Patrick Tripeny; 128(6), 691-709 (2002).

Ground motion
Active Interaction Control of Tall Buildings Subjected to Near-Field Ground Motions. — Yunfeng Zhang and Wilfred D. Iwan; 128(1), 69-79 (2002).
Distributed Structural Damage Generated by High-Frequency Ground Motion. — Guowei Ma, Hong Hao, Yong Lu, and Yingxin Zhou; 128(3), 390-9 (2002).
Seismic Critical Excitation Method for Robust Design: A Review. — Izuru Takewaki; 128(5), 665-72 (2002).

Gusts
Definition of Wind Profiles in ASCE 7. — Yin Zhou and Ahsan Kareem; 128(8), 1082-6 (2002).

Gypsum
Seismic Testing of Two-Story Woodframe House: Influence of Wall Finish Materials. — Andre Filiatrault, David Fischer, Bryan Folz, and Chia-Ming Uang; 128(10), 1337-45 (2002).

High strength concretes
Transfer and Development Length of 15-mm Strand in High Performance Concrete Girders. — Lawrence F. Kahn, Jason C. Dill, and Chris G. Reutlinger; 128(7), 913-21 (2002).

Hinges
Modified Tangent Modulus Approach, A Contribution to Plastic Hinge Analysis. — Ronald D. Ziemian and William McGuire; 128(10), 1301-7 (2002).

History
State of the Art of Structural Engineering. — Jose M. Roësset and James T. P. Yao; 128(8), 965-75 (2002).
Contributions of C. A. P. Turner to Development of Reinforced Concrete Flat Slabs 1905–1909. — D. A. Gasparini; 128(10), 1243-52 (2002).

Hollow sections
Fatigue Tests and Design of Thin Cold-Formed Square Hollow Section-to-Plate *T* Connections Under Cyclic In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao Ling Zhao, and Paul Grundy; 128(1), 22-31 (2002).
Seismic Performance of Rectangular Hollow Bridge Columns. — Y.-K. Yeh, Y. L. Mo, and C. Y. Yang; 128(1), 60-8 (2002).
Experimental Study of Bolted HSS Flange-Plate Connections in Axial Tension. — S. Willibald, J. A. Packer, and R. S. Puthli; 128(3), 328-36 (2002).
Void-Filled Cold-Formed Rectangular Hollow Section Braces Subjected to Large Deformation Cyclic Axial Loading. — Xiao-Ling Zhao, Raphael Grzebieta, and Chen Lee; 128(6), 746-53 (2002).
Fatigue Tests and Design of Welded T Connections in Thin Cold-Formed Square Hollow Sections Under In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao-Ling Zhao, and Paul Grundy; 128(11), 1413-22 (2002).

Hydrostatic pressure
Funicular Shapes for Submerged Arches. — C. M. Wang and C. Y. Wang; 128(2), 266-70 (2002).

Hysteresis models
Hysteretic Modeling of Thin-Walled Circular Steel Columns under Biaxial Bending. — Lizhi Jiang, Yoshiaki Goto, and Makoto Obata; 128(3), 319-27 (2002).
Localization Analysis of Reinforced Concrete Members with Softening Behavior. — Ali R. Khaloo and Saeed Tariverdilo; 128(9), 1148-57 (2002).

Inelastic action
Inelastic Cyclic Testing of Welded Unreinforced Moment Connections. — James M. Ricles, Changshi Mao, Le-Wu Lu, and John W. Fisher; 128(4), 429-40 (2002).
Inelastic Behavior of Bolted Flange Plate Connections. — Stephen P. Schneider and Itthinun Teeraparbwong; 128(4), 492-500 (2002).
Inelastic Stability of Loosely Fitted Cylindrical Liners. — K. M. El-Sawy; 128(7), 934-41 (2002).
Collapse Analysis: Large Inelastic Deformations Analysis of Planar Frames. — Mettupalayam V. Sivaselvan and Andrei M. Reinhorn; 128(12), 1575-83 (2002).
Advanced Analysis for Performance-based Design of Steel Structures Exposed to Fires. — J. Y. Richard Liew, L. K. Tang, and Y. S. Choo; 128(12), 1584-93 (2002).

Infrastructure
Condition and Damage Assessment: Issues and Some Promising Indices. — F. Necati Catbas and A. Emin Aktan; 128(8), 1026-36 (2002).

Inspection
Safety Factors for Assessment of Existing Structures. — Dimitri V. Val and Mark G. Stewart; 128(2), 258-65 (2002).

Interactions
Dynamic Vehicle Element Method for Transient Response of Coupled Vehicle-Structure Systems. — Tso-Chien Pan and Jing Li; 128(2), 214-23 (2002).

Isolation
Aseismic Roof Isolation System: Feasibility Study with 13-Story Building. — Roberto Villaverde; 128(2), 188-96 (2002).
Earthquake Resistant Design of Structures using the Variable Frequency Pendulum Isolator. — Pranesh Murnal and Ravi Sinha; 128(7), 870-80 (2002).

Japan
Wind-Induced Vibration and Control of Trans-Tokyo Bay Crossing Bridge. — Yozo Fujino and Yoshitaka Yoshida; 128(8), 1012-25 (2002).

Joints
Load and Resistance Factor Design of Timber Joints: International Practice and Future Direction. — Ian Smith and Greg Foliente; 128(1), 48-59 (2002).
Assessment of Strength Equations for Overlapped Tubular *K*-Joints. — Fabio Gazzola and Marcus M. K. Lee; 128(1), 119-24 (2002).
Deflection of Nested Cold-Formed Steel Z-Section Beams. — Ahmad Ali Ghosn; 128(11), 1423-8 (2002).

Joists
Web Crippling Behavior of Floor Joist/Rim Members in Built Assemblies. — R. L. Serrette; 128(9), 1177-85 (2002).

Lateral loads
Flexural Strength and Ductility of Extended Pile-Shafts. I: Analytical Model. — Y. H. Chai; 128(5), 586-94 (2002).
Evaluation of Simplified Models for Lateral Load Analysis of Unreinforced Masonry Buildings. — Andreas J. Kappos, Gregory G. Penelis, and Christos G. Drakopoulos; 128(7), 890-7 (2002).
Pushover of Hybrid Coupled Walls. I: Design and Modeling. — Sherif El-Tawil, Christopher M. Kuenzli, and Mohammad Hassan; 128(10), 1272-81 (2002).

Layered soils
Simplified Analysis of Layered Soil-Structure Interaction. — L. T. Stavridis; 128(2), 224-30 (2002).

Length
Transfer and Development Length of 15-mm Strand in High Performance Concrete Girders. — Lawrence F. Kahn, Jason C. Dill, and Chris G. Reutlinger; 128(7), 913-21 (2002).

Limit analysis
Reliability Assessment of Pile Groups in Sands. — Khaled H. Eloseily, Bilal M. Ayyub, and Robert Patev; 128(10), 1346-53 (2002).

Limit states
Reliability Assessment of Pile Groups in Sands. — Khaled H. Eloseily, Bilal M. Ayyub, and Robert Patev; 128(10), 1346-53 (2002).

Liners
Inelastic Stability of Loosely Fitted Cylindrical Liners. — K. M. El-Sawy; 128(7), 934-41 (2002).

Load analysis
Evaluation of Simplified Models for Lateral Load Analysis of Unreinforced Masonry Buildings. — Andreas J. Kappos, Gregory G. Penelis, and Christos G. Drakopoulos; 128(7), 890-7 (2002).

Load and resistance design
Load and Resistance Factor Design of Timber Joints: International Practice and Future Direction. — Ian Smith and Greg Foliente; 128(1), 48-59 (2002).
Safety Factors for Assessment of Existing Structures. — Dimitri V. Val and Mark G. Stewart; 128(2), 258-65 (2002).

Load duration
Another Look at Load Duration Effects in Wood. — David V. Rosowsky and William M. Bulleit; 128(6), 824-8 (2002).

Load transfer
Fully Stressed Design of Frame Structures and Multiple Load Paths. — Keith M. Mueller, Min Liu, and Scott A. Burns; 128(6), 806-14 (2002).

Loads
Effect of Vertical Motions on Seismic Response of Highway Bridges. — Martin R. Button, Colman J. Cronin, and Ronald L. Mayes; 128(12), 1551-64 (2002).

Mapping
Concrete Constitutive Relationships Under Different Stress-Temperature Paths. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(12), 1511-8 (2002).

Masonry
Arching in Masonry Walls Subjected to Earthquake Motions. — Athanasios Dafnis, Holger Kolsch, and Hans-Günter Reimerdes; 128(2), 153-9 (2002).
Analyses of Masonry Vaults: A Macro Approach based on Three-Dimensional Damage Model. — Giuseppe Creazza, Renato Matteazzi, Anna Saetta, and Renato Vitaliani; 128(5), 646-54 (2002).
Evaluation of Simplified Models for Lateral Load Analysis of Unreinforced Masonry Buildings. — Andreas J. Kappos, Gregory G. Penelis, and Christos G. Drakopoulos; 128(7), 890-7 (2002).
Behavior of Masonry-Infilled Nonductile Reinforced Concrete Frames. — Ghassan Al-Chaar, Mohsen Issa, and Steve Sweeney; 128(8), 1055-63 (2002).
Probabilistic Crack Prediction for Masonry Structures on Expansive Soils. — Mark J. Masia, Robert E. Melchers, and Peter W. Kleeman; 128(11), 1454-61 (2002).

Mass
Redundancy in Residual Vectors for Missing Mass Effect in Coupled Modal Synthesis. — Jun Zhao and Abhinav Gupta; 128(9), 1231-5 (2002).

Mechanical properties
Concentrated Load Capacity and Stiffness of Oriented Strand Board: Calculation versus Test. — W. H. Thomas; 128(7), 908-12 (2002).

Mechanical Behavior of Circular Steel–Concrete Composite Stub Columns. — Mathias Johansson and Kent Gylltoft; 128(8), 1073-81 (2002).

Membranes

Special Structures: Past, Present, and Future. — Richard Bradshaw, David Campbell, Mousa Gargari, Amir Mirmiran, and Patrick Tripeny; 128(6), 691-709 (2002).

Modal analysis

Structural Damage Identification using Modal Data. I: Simulation Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 87-95 (2002).

Structural Damage Identification using Modal Data. II: Test Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 96-104 (2002).

Model tests

Structural Damage Identification using Modal Data. II: Test Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 96-104 (2002).

Models

Neural Network Emulation of Inverse Dynamics for a Magnetorheological Damper. — Chih-Chen Chang and Li Zhou; 128(2), 231-9 (2002).

Evaluation of Efficiency Factor Models used in Strut-and-Tie Modeling of Nonflexural Members. — Stephen J. Foster and Adnan R. Malik; 128(5), 569-77 (2002).

Flexural Strength and Ductility of Extended Pile-Shafts. I: Analytical Model. — Y. H. Chai; 128(5), 586-94 (2002).

Evaluation of Simplified Models for Lateral Load Analysis of Unreinforced Masonry Buildings. — Andreas J. Kappos, Gregory G. Penelis, and Christos G. Drakopoulos; 128(7), 890-7 (2002).

Seismic Design of Rib-Reinforced Steel Moment Connections based on Equivalent Strut Model. — Cheol-Ho Lee; 128(9), 1121-9 (2002).

Pushover of Hybrid Coupled Walls. I: Design and Modeling. — Sherif El-Tawil, Christopher M. Kuenzli, and Mohammad Hassan; 128(10), 1272-81 (2002).

Moments

Cyclic Response and Design Recommendations of Weak-Axis Reduced Beam Section Moment Connections. — Chad S. Gilton and Chia-Ming Uang; 128(4), 452-63 (2002).

Cyclic Response and Design Recommendations of Reduced Beam Section Moment Connections with Deep Columns. — Brandon Chi and Chia-Ming Uang; 128(4), 464-73 (2002).

Cover-Plate and Flange-Plate Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 474-82 (2002).

Experimental Evaluation of Plate-Reinforced Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 483-91 (2002).

Behavior of Extended End-Plate Moment Connections Subject to Cyclic Loading. — Emmett A. Sumner and Thomas M. Murray; 128(4), 501-8 (2002).

Probabilistic Basis for 2000 SAC Federal Emergency Management Agency Steel Moment Frame Guidelines. — C. Allin Cornell, Fatemeh Jalayer, Ronald O. Hamburger, and Douglas A. Foutch; 128(4), 526-33 (2002).

Empirical Investigation of Flexural Reinforced Concrete Elements with High Compression Reinforcement Ratios. — A. N. Dancygier and R. Eid; 128(5), 578-85 (2002).

Moment Capacities of Steel Angle Sections. — N. S. Trahair; 128(11), 1387-93 (2002).

Nails

Capacity of Oriented Strand Board Shear Walls with Overdriven Sheathing Nails. — Scott N. Jones and Fernando S. Fonseca; 128(7), 898-907 (2002).

Neural networks

Neural Network Emulation of Inverse Dynamics for a Magnetorheological Damper. — Chih-Chen Chang and Li Zhou; 128(2), 231-9 (2002).

Structural Reanalysis using a Neural Network-based Iterative Method. — W. M. Jenkins; 128(7), 946-50 (2002).

Structural Damage Assessment Based on Wavelet Packet Transform. — Z. Sun and C. C. Chang; 128(10), 1354-61 (2002).

Noise control

Wind Sensitivity of Recycled Plastic Soundwalls. — Steven T. Esche and Paul N. Roschke; 128(11), 1462-9 (2002).

Nondestructive evaluation

Effect of Surface Cracks on Rayleigh Wave Propagation: An Experimental Study. — A. Zerwer, M. A. Polak, and J. C. Santamarina; 128(2), 240-8 (2002).

Nondestructive tests

Condition and Damage Assessment: Issues and Some Promising Indices. — F. Necati Catbas and A. Emin Aktan; 128(8), 1026-36 (2002).

Nonlinear analysis

Reinforced Concrete Frame Element with Bond Interfaces. I: Displacement-Based, Force-Based, and Mixed Formulations. — Suchart Limkatanyu and Enrico Spacone; 128(3), 346-55 (2002).

Reinforced Concrete Frame Element with Bond Interfaces. II: State Determinations and Numerical Validation. — Suchart Limkatanyu and Enrico Spacone; 128(3), 356-64 (2002).

Seismic Performance Evaluation for Steel Moment Frames. — Seung-Yul Yun, Ronald O. Hamburger, C. Allin Cornell, and Douglas A. Foutch; 128(4), 534-45 (2002).

Optimum Design of Multicellular Reinforced Concrete Box Docks. — Benjamín Suárez Arroyo, Alex D. Hanganu, and Juan Miquel Canet; 128(5), 603-11 (2002).

Nonlinear Analysis of In-Filled Steel-Concrete Composite Columns. — B. Lakshmi and N. E. Shanmugam; 128(7), 922-33 (2002).

Modified Tangent Modulus Approach, A Contribution to Plastic Hinge Analysis. — Ronald D. Ziemian and William McGuire; 128(10), 1301-7 (2002).

Advanced Analysis for Performance-based Design of Steel Structures Exposed to Fires. — J. Y. Richard Liew, L. K. Tang, and Y. S. Choo; 128(12), 1584-93 (2002).

Database-Assisted Wind Load Capacity Estimates for Low-Rise Steel Frames. — Seokkwon Jang, Le-Wu Lu, Fahim Sadek, and Emil Simiu; 128(12), 1594-603 (2002).

Nonlinear response

Approximate Evaluation of Deflection Amplification Factor. — R. Karami Mohammadi; 128(2), 179-87 (2002).

Geometrically Nonlinear Static Behavior of Cable Structures. — D. Gasparini and V. Gautam; 128(10), 1317-29 (2002).

Numerical analysis

Fully Stressed Design of Frame Structures and Multiple Load Paths. — Keith M. Mueller, Min Liu, and Scott A. Burns; 128(6), 806-14 (2002).

Optimization

Optimal Design of Latticed Towers Subjected to Earthquake Loading. — Fatma Y. Kocer and Jasbir S. Arora; 128(2), 197-204 (2002).

Optimum Design of Multicellular Reinforced Concrete Box Docks. — Benjamín Suárez Arroyo, Alex D. Hanganu, and Juan Miquel Canet; 128(5), 603-11 (2002).

Performance-Based Optimization for Strut-Tie Modeling of Structural Concrete. — Qing Quan Liang, Brian Uy, and Grant P. Steven; 128(6), 815-23 (2002).

Streamline Geometry Optimization in Beam-Column Connection. — Wu-bo Qi and Hiroaki Mimura; 128(6), 829-32 (2002).

Optimization of Elevated Concrete Foundations for Vibrating Machines. — Marcelo A. Silva, Jasbir S. Arora, Colby C. Swan, and Reyolando M. L. R. F. Brasil; 128(11), 1470-9 (2002).

Appraisal of Reciprocal Load Method for Reinforced Concrete Columns of Normal and High Strength Concrete. — W. Wang and H. P. Hong; 128(11), 1480-6 (2002).

Organic matter

Organic Prestressing. — Pedro Alvares Ribeiro do Carmo Pacheco and António Manuel Adão da Fonseca; 128(3), 400-5 (2002).

Panels

New Elastic Stability Formulas for Multiple-Stiffened Shear Panels. — Praween Chusilp and Tsutomu Usami; 128(6), 833-6 (2002).

Behavior of Masonry-Infilled Nonductile Reinforced Concrete Frames. — Ghassan Al-Chaar, Mohsen Issa, and Steve Sweeney; 128(8), 1055-63 (2002).

Parameters

Further Characteristics for Multiple Tuned Mass Dampers. — Chunxiang Li and Yanxia Liu; 128(10), 1362-5 (2002).

Performance

Performance-Based Optimization for Strut-Tie Modeling of Structural Concrete. — Qing Quan Liang, Brian Uy, and Grant P. Steven; 128(6), 815-23 (2002).

Second-Order Third-Moment Reliability Method. — Yan-Gang Zhao, Tetsuro Ono, and Masahiro Kato; 128(8), 1087-90 (2002).

Performance evaluation

Seismic Performance Evaluation for Steel Moment Frames. — Seung-Yul Yun, Ronald O. Hamburger, C. Allin Cornell, and Douglas A. Foutch; 128(4), 534-45 (2002).

Seismic Performance Evaluation of Pre-Northridge Steel Frame Buildings with Brittle Connections. — Kihak Lee and Douglas A. Foutch; 128(4), 546-55 (2002).

Performance Evaluation of Controlled Steel Frames under Multilevel Seismic Loads. — Luciana R. Barroso, Scott E. Breneman, and H. Allison Smith; 128(11), 1368-78 (2002).

Piers

Finite-Element Bond-Slip Model for Concrete Columns under Cyclic Loads. — Claire Girard and Josée Bastien; 128(12), 1502-10 (2002).

Pile foundation

Reliability Assessment of Pile Groups in Sands. — Khaled H. Eloseily, Bilal M. Ayyub, and Robert Patev; 128(10), 1346-53 (2002).

Pile groups

Reliability Assessment of Pile Groups in Sands. — Khaled H. Eloseily, Bilal M. Ayyub, and Robert Patev; 128(10), 1346-53 (2002).

Plain strain

Analysis of Plane Stress Ductile Fracture Propagation by Simulating Necking. — Robert J. Dexter and Michael L. Gentilcore; 128(8), 1003-11 (2002).

Plastic Analysis

Visco-Elasto-Plastic Analysis of Steel Frames in Fire. — K. H. Tan, S. K. Ting, and Z. F. Huang; 128(1), 105-14 (2002).

Plastic hinges

Advanced Analysis for Performance-based Design of Steel Structures Exposed to Fires. — J. Y. Richard Liew, L. K. Tang, and Y. S. Choo; 128(12), 1584-93 (2002).

Plasticity

Finite Element Analysis of Infilled Frames. — Asok K. Ghosh and Amde M. Amde; 128(7), 881-9 (2002).

Analysis of Plane Stress Ductile Fracture Propagation by Simulating Necking. — Robert J. Dexter and Michael L. Gentilcore; 128(8), 1003-11 (2002).

Plastics

Wind Sensitivity of Recycled Plastic Soundwalls. — Steven T. Esche and Paul N. Roschke; 128(11), 1462-9 (2002).

Plates

Analytical Method for Calculation of Deformations and Stresses of Wall Plates of Dry Gas Holders Under Pressure. — L. H. You, J. J. Zhang, H. B. Wu, and R. B. Sun; 128(1), 125-8 (2002).

Improved Computation of Stress Resultants in the *p*-Ritz Method. — C. M. Wang, Y. C. Wang, J. N. Reddy, and V. Thevendran; 128(2), 249-57 (2002).

Inelastic Cyclic Testing of Welded Unreinforced Moment Connections. — James M. Ricles, Changshi Mao, Le-Wu Lu, and John W. Fisher; 128(4), 429-40 (2002).

Cover-Plate and Flange-Plate Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 474-82 (2002).

Experimental Evaluation of Plate-Reinforced Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 483-91 (2002).

Inelastic Behavior of Bolted Flange Plate Connections. — Stephen P. Schneider and Itthinun Teeraparbwong; 128(4), 492-500 (2002).

Behavior of Extended End-Plate Moment Connections Subject to Cyclic Loading. — Emmett A. Sumner and Thomas M. Murray; 128(4), 501-8 (2002).

Sensitivities of Strength and Ductility of Plated Reinforced Concrete Sections to Preexisting Strains. — Wendel M. Sebastian; 128(5), 624-36 (2002).

Special Structures: Past, Present, and Future. — Richard Bradshaw, David Campbell, Mousa Gargari, Amir Mirmiran, and Patrick Tripeny; 128(6), 691-709 (2002).

Cyclic Behavior of Perforated Stiffened Plates under Axial Forces. — K. Fujii; 128(6), 779-87 (2002).

New Elastic Stability Formulas for Multiple-Stiffened Shear Panels. — Praween Chusilp and Tsutomu Usami; 128(6), 833-6 (2002).

Finite-Element Analysis of Steel–Concrete Composite Plate Girder. — K. Baskar, N. E. Shanmugam, and V. Thevendran; 128(9), 1158-68 (2002).

Buckling of Unidirectionally Loaded Composite Plates with One Free and One Rotationally Restrained Unloaded Edge. — László P. Kollár; 128(9), 1202-11 (2002).

Stress Concentration Factors of Doubler Plate Reinforced Tubular T Joints. — T. C. Fung, C. K. Soh, T. K. Chan, and Erni; 128(11), 1399-412 (2002).

Post tensioning

Seismic Behavior of Post-Tensioned Gravity Dams: Shake Table Experiments and Numerical Simulations. — Philippe B. Morin, Pierre Léger, and René Tinawi; 128(2), 140-52 (2002).

Posttensioned Energy Dissipating Connections for Moment-Resisting Steel Frames. — Constantin Christopoulos, Andre Filiatrault, Chia-Ming Uang, and Bryan Folz; 128(9), 1111-20 (2002).

Nonlinear Behavior of Posttensioned Hybrid Coupled Wall Subassemblages. — Qiang Shen and Yahya C. Kurama; 128(10), 1290-300 (2002).

Postbuckling

Behavior of Intermediate Transverse Stiffeners Attached on Web Panels. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(3), 337-45 (2002).

Pounding

Effect of Pounding and Restrainers on Seismic Response of Multiple-Frame Bridges. — Reginald DesRoches and Susendar Muthukumar; 128(7), 860-9 (2002).

Prestressing

Organic Prestressing. — Pedro Alvares Ribeiro do Carmo Pacheco and António Manuel Adão da Fonseca; 128(3), 400-5 (2002).

Membrane Elements Subjected to In-Plane Shearing and Normal Stresses. — Khaldoun N. Rahal; 128(8), 1064-72 (2002).

Prestressing with Unbonded Internal or External Tendons: Analysis and Computer Model. — Nihal Ariyawardena and Amin Ghali; 128(12), 1493-501 (2002).

Probabilistic methods

Probabilistic Basis for 2000 SAC Federal Emergency Management Agency Steel Moment Frame Guidelines. — C. Allin Cornell, Fatemeh Jalayer, Ronald O. Hamburger, and Douglas A. Foutch; 128(4), 526-33 (2002).

Probability

Structural Reliability of Multistory Buildings during Construction. — Deepthi C. Epaarachchi, Mark G. Stewart, and David V. Rosowsky; 128(2), 205-13 (2002).

Another Look at Load Duration Effects in Wood. — David V. Rosowsky and William M. Bulleit; 128(6), 824-8 (2002).

Reliability-based Seismic Design of Wood Shear Walls. — David V. Rosowsky; 128(11), 1439-53 (2002).

Probabilistic Crack Prediction for Masonry Structures on Expansive Soils. — Mark J. Masia, Robert E. Melchers, and Peter W. Kleeman; 128(11), 1454-61 (2002).

Prototypes

Seismic Performance of Rectangular Hollow Bridge Columns. — Y.-K. Yeh, Y. L. Mo, and C. Y. Yang; 128(1), 60-8 (2002).

Pull-out resistance

Cyclic Pull-Out Strength of Screwed Connections in Steel Roof and Wall Cladding Systems using Thin Steel Battens. — M. Mahendran and D. Mahaarachchi; 128(6), 771-8 (2002).

Random vibration

Seismic Critical Excitation Method for Robust Design: A Review. — Izuru Takewaki; 128(5), 665-72 (2002).

Rayleigh waves

Effect of Surface Cracks on Rayleigh Wave Propagation: An Experimental Study. — A. Zerwer, M. A. Polak, and J. C. Santamarina; 128(2), 240-8 (2002).

Reinforcement

Modeling for Postyield Buckling of Reinforcement. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(9), 1139-47 (2002).

Prediction of Interface Shear Stresses in Elastoplastic Moment-Varying Zones of Advanced Composite Material-Strengthened Concrete Members. — Wendel M. Sebastian; 128(9), 1212-21 (2002).

Reinforcement Stability and Fracture of Cover Concrete in Reinforced Concrete Members. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(10), 1253-62 (2002).

Reliability

Another Look at Load Duration Effects in Wood. — David V. Rosowsky and William M. Bulleit; 128(6), 824-8 (2002).

Second-Order Third-Moment Reliability Method. — Yan-Gang Zhao, Tetsuro Ono, and Masahiro Kato; 128(8), 1087-90 (2002).

Reliability Assessment of Pile Groups in Sands. — Khaled H. Eloseily, Bilal M. Ayyub, and Robert Patev; 128(10), 1346-53 (2002).

Reliability Assessment of Highway Truss Sign Supports. — Jun Yang and John T. DeWolf; 128(11), 1429-38 (2002).

Reliability-based Seismic Design of Wood Shear Walls. — David V. Rosowsky; 128(11), 1439-53 (2002).

Database-Assisted Wind Load Capacity Estimates for Low-Rise Steel Frames. — Seokkwon Jang, Le-Wu Lu, Fahim Sadek, and Emil Simiu; 128(12), 1594-603 (2002).

Reliability analysis

Seismic Performance Evaluation for Steel Moment Frames. — Seung-Yul Yun, Ronald O. Hamburger, C. Allin Cornell, and Douglas A. Foutch; 128(4), 534-45 (2002).

Channel Columns Undergoing Local, Distortional, and Overall Buckling. — Ben Young and Jintang Yan; 128(6), 728-36 (2002).

Compression Tests of Stainless Steel Tubular Members. — Ben Young and Wibisono Hartono; 128(6), 754-61 (2002).

Research

Organic Prestressing. — Pedro Alvares Ribeiro do Carmo Pacheco and António Manuel Adão da Fonseca; 128(3), 400-5 (2002).

Restoration

Stud Shear Connection Design for Composite Concrete Slab and Wood Beams. — Piero Gelfi, Ezio Giuriani, and Alessandra Marini; 128(12), 1544-50 (2002).

Rigidity

New Elastic Stability Formulas for Multiple-Stiffened Shear Panels. — Praween Chusilp and Tsutomu Usami; 128(6), 833-6 (2002).

Risk

Pushover of Hybrid Coupled Walls. II: Analysis and Behavior. — Sherif El-Tawil and Christopher M. Kuenzli; 128(10), 1282-9 (2002).

Robust design

Seismic Critical Excitation Method for Robust Design: A Review. — Izuru Takewaki; 128(5), 665-72 (2002).

Roofs

Aseismic Roof Isolation System: Feasibility Study with 13-Story Building. — Roberto Villaverde; 128(2), 188-96 (2002).

Cyclic Pull-Out Strength of Screwed Connections in Steel Roof and Wall Cladding Systems using Thin Steel Battens. — M. Mahendran and D. Mahaarachchi; 128(6), 771-8 (2002).

Approximate Lateral Drift Demands in Multistory Buildings with Nonuniform Stiffness. — Eduardo Miranda and Carlos J. Reyes; 128(7), 840-9 (2002).

Snow Drifts at Windward Roof Steps. — Michael O'Rourke and Charles De Angelis; 128(10), 1330-6 (2002).

Rotation

Bending Behavior of Composite Girders with Cold Formed Steel U Section. — Shun-ichi Nakamura; 128(9), 1169-76 (2002).

Safety factors

Safety Factors for Assessment of Existing Structures. — Dimitri V. Val and Mark G. Stewart; 128(2), 258-65 (2002).

Seismic design

Performance-Based Seismic Design of Wood Framed Buildings. — Andre Filiatrault and Bryan Folz; 128(1), 39-47 (2002).

Approximate Evaluation of Deflection Amplification Factor. — R. Karami Mohammadi; 128(2), 179-87 (2002).

Hysteretic Modeling of Thin-Walled Circular Steel Columns under Biaxial Bending. — Lizhi Jiang, Yoshiaki Goto, and Makoto Obata; 128(3), 319-27 (2002).

General Issues Influencing Connection Performance. — Charles W. Roeder; 128(4), 420-8 (2002).

Experimental Evaluation of Cyclically Loaded Reduced Beam Section Moment Connections. — Scott L. Jones, Gary T. Fry, and Michael D. Engelhardt; 128(4), 441-51 (2002).

Connection Performance for Seismic Design of Steel Moment Frames. — Charles W. Roeder; 128(4), 517-25 (2002).

Approximate Lateral Drift Demands in Multistory Buildings with Nonuniform Stiffness. — Eduardo Miranda and Carlos J. Reyes; 128(7), 840-9 (2002).

Earthquake Resistant Design of Structures using the Variable Frequency Pendulum Isolator. — Pranesh Murnal and Ravi Sinha; 128(7), 870-80 (2002).

Energy-based Seismic Design of Structures using Yield Mechanism and Target Drift. — Sutat Leelataviwat, Subhash C. Goel, and Božidar Stojadinović; 128(8), 1046-54 (2002).

Seismic Design of Rib-Reinforced Steel Moment Connections based on Equivalent Strut Model. — Cheol-Ho Lee; 128(9), 1121-9 (2002).

Nonlinear Behavior of Posttensioned Hybrid Coupled Wall Subassemblages. — Qiang Shen and Yahya C. Kurama; 128(10), 1290-300 (2002).

Reliability-based Seismic Design of Wood Shear Walls. — David V. Rosowsky; 128(11), 1439-53 (2002).

Effect of Vertical Motions on Seismic Response of Highway Bridges. — Martin R. Button, Colman J. Cronin, and Ronald L. Mayes; 128(12), 1551-64 (2002).

Seismic effects

Performance Evaluation of Controlled Steel Frames under Multilevel Seismic Loads. — Luciana R. Barroso, Scott E. Breneman, and H. Allison Smith; 128(11), 1368-78 (2002).

Seismic hazard

Probabilistic Basis for 2000 SAC Federal Emergency Management Agency Steel Moment Frame Guidelines. — C. Allin Cornell, Fatemeh Jalayer, Ronald O. Hamburger, and Douglas A. Foutch; 128(4), 526-33 (2002).

Seismic isolation

Stability of Elastomeric Isolation Bearings: Experimental Study. — Ian Buckle, Satish Nagarajaiah, and Keith Ferrell; 128(1), 3-11 (2002).

Seismic properties

Seismic Behavior of Post-Tensioned Gravity Dams: Shake Table Experiments and Numerical Simulations. — Philippe B. Morin, Pierre Léger, and René Tinawi; 128(2), 140-52 (2002).

Seismic response

Seismic Performance of Rectangular Hollow Bridge Columns. — Y.-K. Yeh, Y. L. Mo, and C. Y. Yang; 128(1), 60-8 (2002).

Seismic Evaluation of Gravity-Load-Designed Column-Grid System. — Khalid M. Mosalam and Clay J. Naito; 128(2), 160-8 (2002).

Comparative Study of Seismic Behavior of Multistory Reinforced Concrete Framed Structures. — Yong Lu; 128(2), 169-78 (2002).

Seismic Performance Evaluation for Steel Moment Frames. — Seung-Yul Yun, Ronald O. Hamburger, C. Allin Cornell, and Douglas A. Foutch; 128(4), 534-45 (2002).

Effect of Pounding and Restrainers on Seismic Response of Multiple-Frame Bridges. — Reginald DesRoches and Susendar Muthukumar; 128(7), 860-9 (2002).

Closer Look at the Drift Demand Spectrum. — Juwhan Kim and Kevin R. Collins; 128(7), 942-5 (2002).

Experimental Verification of Seismic Response of Building Frame with Adaptive Sliding Base-Isolation System. — Glenn J. Madden, Michael D. Symans, and Nat Wongprasert; 128(8), 1037-45 (2002).

Redundancy in Residual Vectors for Missing Mass Effect in Coupled Modal Synthesis. — Jun Zhao and Abhinav Gupta; 128(9), 1231-5 (2002).

Seismic studies

Seismic Performance Evaluation of Pre-Northridge Steel Frame Buildings with Brittle Connections. — Kihak Lee and Douglas A. Foutch; 128(4), 546-55 (2002).

Seismic tests

Seismic Testing of Two-Story Woodframe House: Influence of Wall Finish Materials. — Andre Filiatrault, David Fischer, Bryan Folz, and Chia-Ming Uang; 128(10), 1337-45 (2002).

Sensitivity analysis

Robust Building Stiffness Design for Variable Critical Excitations. — Izuru Takewaki; 128(12), 1565-74 (2002).

Serviceability

Probabilistic Crack Prediction for Masonry Structures on Expansive Soils. — Mark J. Masia, Robert E. Melchers, and Peter W. Kleeman; 128(11), 1454-61 (2002).

Settlement analysis

Simplified Analysis of Layered Soil-Structure Interaction. — L. T. Stavridis; 128(2), 224-30 (2002).

Shear

Strength and Ductility of Steel Box Girders under Cyclic Shear. — Praween Chusilp and Tsutomu Usami; 128(9), 1130-8 (2002).

Local Stresses and Crack Displacements in Reinforced Concrete Elements. — Yuichi Sato and Shigeru Fujii; 128(10), 1263-71 (2002).

Bearing, Shear, and Torsion Capacities of Steel Angle Sections. — N. S. Trahair; 128(11), 1394-8 (2002).

Deflection of Nested Cold-Formed Steel Z-Section Beams. — Ahmad Ali Ghosn; 128(11), 1423-8 (2002).

Strength Prediction for Discontinuity Regions by Softened Strut-and-Tie Model. — Shyh-Jiann Hwang and Hung-Jen Lee; 128(12), 1519-26 (2002).

Shear deformation

New Concept to Include Shear Deformation in a Curved Beam Element. — A. H. Sheikh; 128(3), 406-10 (2002).

Analysis of Shear Lag Anomaly in Box Girders. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(11), 1379-86 (2002).

Shear flow

Analysis of Shear Lag Anomaly in Box Girders. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(11), 1379-86 (2002).

Shear lag

Analysis of Shear Lag Anomaly in Box Girders. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(11), 1379-86 (2002).

Finite Segment Method for Shear Lag Analysis of Cable-Stayed Bridges. — Q. Z. Luo, J. Tang, and Q. S. Li; 128(12), 1617-22 (2002).

Shear modulus
Parameters Influencing Performance of Elastomeric Bearings at Low Temperatures. — Ahmet Yakut and Joseph A. Yura; 128(8), 986-94 (2002).
Evaluation of Elastomeric Bearing Performance at Low Temperatures. — Ahmet Yakut and Joseph A. Yura; 128(8), 995-1002 (2002).

Shear strain
Stability of Elastomeric Isolation Bearings: Experimental Study. — Ian Buckle, Satish Nagarajaiah, and Keith Ferrell; 128(1), 3-11 (2002).

Shear strength
Behavior of Screw Connections in Residential Construction. — R. A. LaBoube and M. A. Sokol; 128(1), 115-8 (2002).
Behavior of Intermediate Transverse Stiffeners Attached on Web Panels. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(3), 337-45 (2002).
Shear Strength of Reinforced Concrete Columns Strengthened with Carbon-Fiber-Reinforced Plastic Sheet. — Lieping Ye, Qingrui Yue, Shuhong Zhao, and Quanwang Li; 128(12), 1527-34 (2002).

Shear stress
Prediction of Interface Shear Stresses in Elastoplastic Moment-Varying Zones of Advanced Composite Material-Strengthened Concrete Members. — Wendel M. Sebastian; 128(9), 1212-21 (2002).

Shear walls
Performance-Based Seismic Design of Wood Framed Buildings. — Andre Filiatrault and Bryan Folz; 128(1), 39-47 (2002).
Capacity of Oriented Strand Board Shear Walls with Overdriven Sheathing Nails. — Scott N. Jones and Fernando S. Fonseca; 128(7), 898-907 (2002).
Reliability-based Seismic Design of Wood Shear Walls. — David V. Rosowsky; 128(11), 1439-53 (2002).

Shell structures
Failure Analysis of Reinforced Concrete Shell Structures using Layered Shell Element with Pressure Node. — Ha-Wong Song, Sang-Hyo Shim, Keun-Joo Byun, and Koichi Maekawa; 128(5), 655-64 (2002).

Sign supports
Reliability Assessment of Highway Truss Sign Supports. — Jun Yang and John T. DeWolf; 128(11), 1429-38 (2002).

Simulation
Active Interaction Control of Tall Buildings Subjected to Near-Field Ground Motions. — Yunfeng Zhang and Wilfred D. Iwan; 128(1), 69-79 (2002).
Seismic Behavior of Post-Tensioned Gravity Dams: Shake Table Experiments and Numerical Simulations. — Philippe B. Morin, Pierre Léger, and René Tinawi; 128(2), 140-52 (2002).

Size effect
Size Effect Hidden in Excessive Dead Load Factor. — Zdeněk P. Bažant and Dan M. Frangopol; 128(1), 80-6 (2002).
Mechanical Model for Failure of Compressed Concrete in Reinforced Concrete Beams. — Alessandro P. Fantilli, Daniele Ferretti, Ivo Iori, and Paolo Vallini; 128(5), 637-45 (2002).

Slabs
Experimental Evaluation of Cyclically Loaded Reduced Beam Section Moment Connections. — Scott L. Jones, Gary T. Fry, and Michael D. Engelhardt; 128(4), 441-51 (2002).
Construction Considerations for Composite Steel-and-Concrete Floor Systems. — Subcommitee on Composite Steel and Concrete Floor Systems; 128(9), 1099-110 (2002).
Contributions of C. A. P. Turner to Development of Reinforced Concrete Flat Slabs 1905–1909. — D. A. Gasparini; 128(10), 1243-52 (2002).

Slenderness ratio
Appraisal of Reciprocal Load Method for Reinforced Concrete Columns of Normal and High Strength Concrete. — W. Wang and H. P. Hong; 128(11), 1480-6 (2002).

Slip
Finite-Element Bond-Slip Model for Concrete Columns under Cyclic Loads. — Claire Girard and Josée Bastien; 128(12), 1502-10 (2002).

Snow loads
Snow Drifts at Windward Roof Steps. — Michael O'Rourke and Charles De Angelis; 128(10), 1330-6 (2002).

Snowdrifts
Snow Drifts at Windward Roof Steps. — Michael O'Rourke and Charles De Angelis; 128(10), 1330-6 (2002).

Softening
Localization Analysis of Reinforced Concrete Members with Softening Behavior. — Ali R. Khaloo and Saeed Tariverdilo; 128(9), 1148-57 (2002).

Soil-structure interaction
Simplified Analysis of Layered Soil-Structure Interaction. — L. T. Stavridis; 128(2), 224-30 (2002).
Optimization of Elevated Concrete Foundations for Vibrating Machines. — Marcelo A. Silva, Jasbir S. Arora, Colby C. Swan, and Reyolando M. L. R. F. Brasil; 128(11), 1470-9 (2002).

Spacing
Special Structures: Past, Present, and Future. — Richard Bradshaw, David Campbell, Mousa Gargari, Amir Mirmiran, and Patrick Tripeny; 128(6), 691-709 (2002).

Spalling
Reinforcement Stability and Fracture of Cover Concrete in Reinforced Concrete Members. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(10), 1253-62 (2002).

Splitting
Experimental Study on Shear Splitting Failure of Full-Scale Composite Concrete Encased Steel Beams. — C. C. Weng, S. I. Yen, and M. H. Jiang; 128(9), 1186-94 (2002).

Stability
Stability of Elastomeric Isolation Bearings: Experimental Study. — Ian Buckle, Satish Nagarajaiah, and Keith Ferrell; 128(1), 3-11 (2002).
Stability Tests of Sandwich Composite Elastica Arches. — Amde M. Amde, Amir Mirmiran, and David Nelsen; 128(5), 683-6 (2002).
Inelastic Stability of Loosely Fitted Cylindrical Liners. — K. M. El-Sawy; 128(7), 934-41 (2002).
Lateral Instability and Lateral Bracing of Steel Beams Subjected to Cyclic Loading. — Masayoshi Nakashima, Iori Kanao, and Dawei Liu; 128(10), 1308-16 (2002).

Stainless steel
Compression Tests of Stainless Steel Tubular Members. — Ben Young and Wibisono Hartono; 128(6), 754-61 (2002).

Standards
Definition of Wind Profiles in ASCE 7. — Yin Zhou and Ahsan Kareem; 128(8), 1082-6 (2002).

State-of-the-art reviews
Special Structures: Past, Present, and Future. — Richard Bradshaw, David Campbell, Mousa Gargari, Amir Mirmiran, and Patrick Tripeny; 128(6), 691-709 (2002).

Steel
Net Section Efficiency of Steel Coupons with Power Actuated Fasteners. — Hermann Beck and Michael D. Engelhardt; 128(1), 12-21 (2002).
Experimental Behavior of High Strength Square Concrete-Filled Steel Tube Beam-Columns. — Amit H. Varma, James M. Ricles, Richard Sause, and Le-Wu Lu; 128(3), 309-18 (2002).
Experimental Study of Bolted HSS Flange-Plate Connections in Axial Tension. — S. Willibald, J. A. Packer, and R. S. Puthli; 128(3), 328-36 (2002).
Cover-Plate and Flange-Plate Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 474-82 (2002).
Experimental Evaluation of Plate-Reinforced Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 483-91 (2002).
Cyclic Testing of Moment Connections Upgraded with Weld Overlays. — James C. Anderson, Jean Duan, Yan Xiao, and Peter Maranian; 128(4), 509-16 (2002).
Distortional Loads and Brace Forces in Steel Box Girders. — Zhanfei "Tom" Fan and Todd A. Helwig; 128(6), 710-8 (2002).
Cyclic Pull-Out Strength of Screwed Connections in Steel Roof and Wall Cladding Systems using Thin Steel Battens. — M. Mahendran and D. Mahaarachchi; 128(6), 771-8 (2002).
Nonlinear Analysis of In-Filled Steel-Concrete Composite Columns. — B. Lakshmi and N. E. Shanmugam; 128(7), 922-33 (2002).
Mechanical Behavior of Circular Steel–Concrete Composite Stub Columns. — Mathias Johansson and Kent Gylltoft; 128(8), 1073-81 (2002).
Seismic Design of Rib-Reinforced Steel Moment Connections based on Equivalent Strut Model. — Cheol-Ho Lee; 128(9), 1121-9 (2002).
Finite-Element Analysis of Steel–Concrete Composite Plate Girder. — K. Baskar, N. E. Shanmugam, and V. Thevendran; 128(9), 1158-68 (2002).
Moment Capacities of Steel Angle Sections. — N. S. Trahair; 128(11), 1387-93 (2002).
Bearing, Shear, and Torsion Capacities of Steel Angle Sections. — N. S. Trahair; 128(11), 1394-8 (2002).

Steel beams
Construction Considerations for Composite Steel-and-Concrete Floor Systems. — Subcommitee on Composite Steel and Concrete Floor Systems; 128(9), 1099-110 (2002).
Experimental Study on Shear Splitting Failure of Full-Scale Composite Concrete Encased Steel Beams. — C. C. Weng, S. I. Yen, and M. H. Jiang; 128(9), 1186-94 (2002).
Lateral Instability and Lateral Bracing of Steel Beams Subjected to Cyclic Loading. — Masayoshi Nakashima, Iori Kanao, and Dawei Liu; 128(10), 1308-16 (2002).

Steel columns
Hysteretic Modeling of Thin-Walled Circular Steel Columns under Biaxial Bending. — Lizhi Jiang, Yoshiaki Goto, and Makoto Obata; 128(3), 319-27 (2002).
Axial Load Behavior of Stiffened Concrete-Filled Steel Columns. — C. S. Huang, Y.-K. Yeh, G.-Y. Liu, H.-T. Hu, K. C. Tsai, Y. T. Weng, S. H. Wang, and M.-H. Wu; 128(9), 1222-30 (2002).

Steel construction
Experimental Evaluation of Earthquake Resistant Posttensioned Steel Connections. — J. M. Ricles, R. Sause, S. W. Peng, and L. W. Lu; 128(7), 850-9 (2002).

Steel decks
Construction Considerations for Composite Steel-and-Concrete Floor Systems. — Subcommitee on Composite Steel and Concrete Floor Systems; 128(9), 1099-110 (2002).

Steel frames
Active Interaction Control of Tall Buildings Subjected to Near-Field Ground Motions. — Yunfeng Zhang and Wilfred D. Iwan; 128(1), 69-79 (2002).
Visco-Elasto-Plastic Analysis of Steel Frames in Fire. — K. H. Tan, S. K. Ting, and Z. F. Huang; 128(1), 105-14 (2002).
Experimental Evaluation of Cyclically Loaded Reduced Beam Section Moment Connections. — Scott L. Jones, Gary T. Fry, and Michael D. Engelhardt; 128(4), 441-51 (2002).
Connection Performance for Seismic Design of Steel Moment Frames. — Charles W. Roeder; 128(4), 517-25 (2002).
Probabilistic Basis for 2000 SAC Federal Emergency Management Agency Steel Moment Frame Guidelines. — C. Allin Cornell, Fatemeh Jalayer, Ronald O. Hamburger, and Douglas A. Foutch; 128(4), 526-33 (2002).
Seismic Performance Evaluation for Steel Moment Frames. — Seung-Yul Yun, Ronald O. Hamburger, C. Allin Cornell, and Douglas A. Foutch; 128(4), 534-45 (2002).
Seismic Performance Evaluation of Pre-Northridge Steel Frame Buildings with Brittle Connections. — Kihak Lee and Douglas A. Foutch; 128(4), 546-55 (2002).
Posttensioned Energy Dissipating Connections for Moment-Resisting Steel Frames. — Constantin Christopoulos, Andre Filiatrault, Chia-Ming Uang, and Bryan Folz; 128(9), 1111-20 (2002).
Performance Evaluation of Controlled Steel Frames under Multilevel Seismic Loads. — Luciana R. Barroso, Scott E. Breneman, and H. Allison Smith; 128(11), 1368-78 (2002).

Steel structures
Tests of Channels Subjected to Combined Bending and Web Crippling. — Ben Young and Gregory J. Hancock; 128(3), 300-8 (2002).
Compendium of Design Office Problems—Volume III. — Committee on Des. of Steel Build. Struct. of the Tech. Admin. Commit. on Metals; 128(5), 559-68 (2002).
Channel Columns Undergoing Local, Distortional, and Overall Buckling. — Ben Young and Jintang Yan; 128(6), 728-36 (2002).
Posttensioned Energy Dissipating Connections for Moment-Resisting Steel Frames. — Constantin Christopoulos, Andre Filiatrault, Chia-Ming Uang, and Bryan Folz; 128(9), 1111-20 (2002).
Advanced Analysis for Performance-based Design of Steel Structures Exposed to Fires. — J. Y. Richard Liew, L. K. Tang, and Y. S. Choo; 128(12), 1584-93 (2002).
Database-Assisted Wind Load Capacity Estimates for Low-Rise Steel Frames. — Seokkwon Jang, Le-Wu Lu, Fahim Sadek, and Emil Simiu; 128(12), 1594-603 (2002).

Stiffeners
Behavior of Intermediate Transverse Stiffeners Attached on Web Panels. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(3), 337-45 (2002).

Stiffening
Evaluation of Elastomeric Bearing Performance at Low Temperatures. — Ahmet Yakut and Joseph A. Yura; 128(8), 995-1002 (2002).
Axial Load Behavior of Stiffened Concrete-Filled Steel Columns. — C. S. Huang, Y.-K. Yeh, G.-Y. Liu, H.-T. Hu, K. C. Tsai, Y. T. Weng, S. H. Wang, and M.-H. Wu; 128(9), 1222-30 (2002).

Stiffness
Distortional Loads and Brace Forces in Steel Box Girders. — Zhanfei "Tom" Fan and Todd A. Helwig; 128(6), 710-8 (2002).
Column Tests of Cold-Formed Steel Channels with Complex Stiffeners. — Jintang Yan and Ben Young; 128(6), 737-45 (2002).
Cyclic Behavior of Perforated Stiffened Plates under Axial Forces. — K. Fujii; 128(6), 779-87 (2002).
Approximate Lateral Drift Demands in Multistory Buildings with Nonuniform Stiffness. — Eduardo Miranda and Carlos J. Reyes; 128(7), 840-9 (2002).
Finite Element Analysis of Infilled Frames. — Asok K. Ghosh and Amde M. Amde; 128(7), 881-9 (2002).
Concentrated Load Capacity and Stiffness of Oriented Strand Board: Calculation versus Test. — W. H. Thomas; 128(7), 908-12 (2002).
Formula for Stiffness of Bolted-Joint Members with Sleeve and Its Applications. — Y. D. Kwon, Nam Seo Goo, T. H. Yun, and J. K. Park; 128(7), 951-5 (2002).
Methodology to Evaluate First Transition Foundation Stiffness for Columns on Winkler Foundation. — G. Venkateswara Rao and R. Neetha; 128(7), 956-9 (2002).
Reinforcement Stability and Fracture of Cover Concrete in Reinforced Concrete Members. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(10), 1253-62 (2002).
Robust Building Stiffness Design for Variable Critical Excitations. — Izuru Takewaki; 128(12), 1565-74 (2002).

Strain
Concrete Constitutive Relationships Under Different Stress-Temperature Paths. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(12), 1511-8 (2002).

Strain softening
Mechanical Model for Failure of Compressed Concrete in Reinforced Concrete Beams. — Alessandro P. Fantilli, Daniele Ferretti, Ivo Iori, and Paolo Vallini; 128(5), 637-45 (2002).

Strength
Assessment of Strength Equations for Overlapped Tubular *K*-Joints. — Fabio Gazzola and Marcus M. K. Lee; 128(1), 119-24 (2002).
Behavior and Strength of Partially Encased Composite Columns with Built-up Shapes. — Thierry Chicoine, Robert Tremblay, Bruno Massicotte, James M. Ricles, and Le-Wu Lu; 128(3), 279-88 (2002).
Capacity of Oriented Strand Board Shear Walls with Overdriven Sheathing Nails. — Scott N. Jones and Fernando S. Fonseca; 128(7), 898-907 (2002).
Strength Prediction for Discontinuity Regions by Softened Strut-and-Tie Model. — Shyh-Jiann Hwang and Hung-Jen Lee; 128(12), 1519-26 (2002).

Stress
Analytical Method for Calculation of Deformations and Stresses of Wall Plates of Dry Gas Holders Under Pressure. — L. H. You, J. J. Zhang, H. B. Wu, and R. B. Sun; 128(1), 125-8 (2002).
Improved Computation of Stress Resultants in the *p*-Ritz Method. — C. M. Wang, Y. C. Wang, J. N. Reddy, and V. Thevendran; 128(2), 249-57 (2002).
Concrete Constitutive Relationships Under Different Stress-Temperature Paths. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(12), 1511-8 (2002).

Stress concentration
Stress Concentration Factors of Doubler Plate Reinforced Tubular T Joints. — T. C. Fung, C. K. Soh, T. K. Chan, and Erni; 128(11), 1399-412 (2002).
Fatigue Tests and Design of Welded T Connections in Thin Cold-Formed Square Hollow Sections Under In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao-Ling Zhao, and Paul Grundy; 128(11), 1413-22 (2002).

Stress strain relations
Modeling for Postyield Buckling of Reinforcement. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(9), 1139-47 (2002).
Compressive Behavior of Carbon Fiber Reinforced Polymer-Confined Concrete in Elliptical Columns. — J. G. Teng and L. Lam; 128(12), 1535-43 (2002).

Structural analysis
Structural Reanalysis using a Neural Network-based Iterative Method. — W. M. Jenkins; 128(7), 946-50 (2002).
Effect of Vertical Motions on Seismic Response of Highway Bridges. — Martin R. Button, Colman J. Cronin, and Ronald L. Mayes; 128(12), 1551-64 (2002).

Structural control
Experimental Verification of Seismic Response of Building Frame with Adaptive Sliding Base-Isolation System. — Glenn J. Madden, Michael D. Symans, and Nat Wongprasert; 128(8), 1037-45 (2002).
Performance Evaluation of Controlled Steel Frames under Multilevel Seismic Loads. — Luciana R. Barroso, Scott E. Breneman, and H. Allison Smith; 128(11), 1368-78 (2002).

Structural design
Size Effect Hidden in Excessive Dead Load Factor. — Zdeněk P. Bažant and Dan M. Frangopol; 128(1), 80-6 (2002).
Funicular Shapes for Submerged Arches. — C. M. Wang and C. Y. Wang; 128(2), 266-70 (2002).
Seismic Critical Excitation Method for Robust Design: A Review. — Izuru Takewaki; 128(5), 665-72 (2002).
Channel Columns Undergoing Local, Distortional, and Overall Buckling. — Ben Young and Jintang Yan; 128(6), 728-36 (2002).
Compression Tests of Stainless Steel Tubular Members. — Ben Young and Wibisono Hartono; 128(6), 754-61 (2002).
Fully Stressed Design of Frame Structures and Multiple Load Paths. — Keith M. Mueller, Min Liu, and Scott A. Burns; 128(6), 806-14 (2002).

Structural dynamics
Structural Damage Identification using Modal Data. II: Test Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 96-104 (2002).

Structural elements
Analyses of Masonry Vaults: A Macro Approach based on Three-Dimensional Damage Model. — Giuseppe Creazza, Renato Matteazzi, Anna Saetta, and Renato Vitaliani; 128(5), 646-54 (2002).

Structural engineering
Compendium of Design Office Problems—Volume III. — Committee on Des. of Steel Build. Struct. of the Tech. Admin. Commit. on Metals; 128(5), 559-68 (2002).
State of the Art of Structural Engineering. — Jose M. Roësset and James T. P. Yao; 128(8), 965-75 (2002).

Structural failure
Optimum Design of Multicellular Reinforced Concrete Box Docks. — Benjamín Suárez Arroyo, Alex D. Hanganu, and Juan Miquel Canet; 128(5), 603-11 (2002).

Structural members
Net Section Efficiency of Steel Coupons with Power Actuated Fasteners. — Hermann Beck and Michael D. Engelhardt; 128(1), 12-21 (2002).
Effect of Force-Temperature Paths on Behaviors of Reinforced Concrete Flexural Members. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(3), 365-73 (2002).
Evaluation of Efficiency Factor Models used in Strut-and-Tie Modeling of Nonflexural Members. — Stephen J. Foster and Adnan R. Malik; 128(5), 569-77 (2002).
Net Section Rupture in Tension Members with Connection Eccentricity. — James G. Orbison, Karl E. Barth, and Peter A. Bartels; 128(8), 976-85 (2002).
Localization Analysis of Reinforced Concrete Members with Softening Behavior. — Ali R. Khaloo and Saeed Tariverdilo; 128(9), 1148-57 (2002).
Prediction of Interface Shear Stresses in Elastoplastic Moment-Varying Zones of Advanced Composite Material-Strengthened Concrete Members. — Wendel M. Sebastian; 128(9), 1212-21 (2002).

Structural reliability
Structural Reliability of Multistory Buildings during Construction. — Deepthi C. Epaarachchi, Mark G. Stewart, and David V. Rosowsky; 128(2), 205-13 (2002).
Safety Factors for Assessment of Existing Structures. — Dimitri V. Val and Mark G. Stewart; 128(2), 258-65 (2002).
Probabilistic Crack Prediction for Masonry Structures on Expansive Soils. — Mark J. Masia, Robert E. Melchers, and Peter W. Kleeman; 128(11), 1454-61 (2002).

Structures
Structural Damage Identification using Modal Data. I: Simulation Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 87-95 (2002).
Dynamic Vehicle Element Method for Transient Response of Coupled Vehicle-Structure Systems. — Tso-Chien Pan and Jing Li; 128(2), 214-23 (2002).
Experimental Investigation of System-Identification-Based Damage Assessment on Structures. — Jeong-Hwan Jang, Inho Yeo, Soobong Shin, and Sung-Pil Chang; 128(5), 673-82 (2002).
Geometrically Nonlinear Static Behavior of Cable Structures. — D. Gasparini and V. Gautam; 128(10), 1317-29 (2002).

Struts
Evaluation of Efficiency Factor Models used in Strut-and-Tie Modeling of Nonflexural Members. — Stephen J. Foster and Adnan R. Malik; 128(5), 569-77 (2002).
Seismic Design of Rib-Reinforced Steel Moment Connections based on Equivalent Strut Model. — Cheol-Ho Lee; 128(9), 1121-9 (2002).

Studs
Shear Stud Connections for the Development of Composite Action between Steel Girders and Fiber-Reinforced Polymer Bridge Decks. — F. L. Moon, II, D. A. Eckel, II, and J. W. Gillespie, Jr.; 128(6), 762-70 (2002).
Construction Considerations for Composite Steel-and-Concrete Floor Systems. — Subcommitee on Composite Steel and Concrete Floor Systems; 128(9), 1099-110 (2002).
Stud Shear Connection Design for Composite Concrete Slab and Wood Beams. — Piero Gelfi, Ezio Giuriani, and Alessandra Marini; 128(12), 1544-50 (2002).

Synthesis
Redundancy in Residual Vectors for Missing Mass Effect in Coupled Modal Synthesis. — Jun Zhao and Abhinav Gupta; 128(9), 1231-5 (2002).

T joints
Stress Concentration Factors of Doubler Plate Reinforced Tubular T Joints. — T. C. Fung, C. K. Soh, T. K. Chan, and Erni; 128(11), 1399-412 (2002).

Taiwan
Seismic Performance of Rectangular Hollow Bridge Columns. — Y.-K. Yeh, Y. L. Mo, and C. Y. Yang; 128(1), 60-8 (2002).

Temperature
Visco-Elasto-Plastic Analysis of Steel Frames in Fire. — K. H. Tan, S. K. Ting, and Z. F. Huang; 128(1), 105-14 (2002).
Parameters Influencing Performance of Elastomeric Bearings at Low Temperatures. — Ahmet Yakut and Joseph A. Yura; 128(8), 986-94 (2002).
Evaluation of Elastomeric Bearing Performance at Low Temperatures. — Ahmet Yakut and Joseph A. Yura; 128(8), 995-1002 (2002).
Concrete Constitutive Relationships Under Different Stress-Temperature Paths. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(12), 1511-8 (2002).

Temperature effects
Effect of Force-Temperature Paths on Behaviors of Reinforced Concrete Flexural Members. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(3), 365-73 (2002).

Tendons
Prestressing with Unbonded Internal or External Tendons: Analysis and Computer Model. — Nihal Ariyawardena and Amin Ghali; 128(12), 1493-501 (2002).

Tension
Net Section Rupture in Tension Members with Connection Eccentricity. — James G. Orbison, Karl E. Barth, and Peter A. Bartels; 128(8), 976-85 (2002).
Stress Concentration Factors of Doubler Plate Reinforced Tubular T Joints. — T. C. Fung, C. K. Soh, T. K. Chan, and Erni; 128(11), 1399-412 (2002).

Tests
Stability Tests of Sandwich Composite Elastica Arches. — Amde M. Amde, Amir Mirmiran, and David Nelsen; 128(5), 683-6 (2002).

Thin wall sections
Fatigue Tests and Design of Thin Cold-Formed Square Hollow Section-to-Plate *T* Connections Under Cyclic In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao Ling Zhao, and Paul Grundy; 128(1), 22-31 (2002).
Void-Filled Cold-Formed Rectangular Hollow Section Braces Subjected to Large Deformation Cyclic Axial Loading. — Xiao-Ling Zhao, Raphael Grzebieta, and Chen Lee; 128(6), 746-53 (2002).
Fatigue Tests and Design of Welded T Connections in Thin Cold-Formed Square Hollow Sections Under In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao-Ling Zhao, and Paul Grundy; 128(11), 1413-22 (2002).

Thin wall structures
Local, Distortional, and Euler Buckling of Thin-Walled Columns. — B. W. Schafer; 128(3), 289-99 (2002).
Strength and Ductility of Steel Box Girders under Cyclic Shear. — Praween Chusilp and Tsutomu Usami; 128(9), 1130-8 (2002).

Three-dimensional models
Analyses of Masonry Vaults: A Macro Approach based on Three-Dimensional Damage Model. — Giuseppe Creazza, Renato Matteazzi, Anna Saetta, and Renato Vitaliani; 128(5), 646-54 (2002).

Ties
Evaluation of Efficiency Factor Models used in Strut-and-Tie Modeling of Nonflexural Members. — Stephen J. Foster and Adnan R. Malik; 128(5), 569-77 (2002).

Torsion
Distortional Loads and Brace Forces in Steel Box Girders. — Zhanfei "Tom" Fan and Todd A. Helwig; 128(6), 710-8 (2002).
Bearing, Shear, and Torsion Capacities of Steel Angle Sections. — N. S. Trahair; 128(11), 1394-8 (2002).

Towers
Optimal Design of Latticed Towers Subjected to Earthquake Loading. — Fatma Y. Kocer and Jasbir S. Arora; 128(2), 197-204 (2002).

Traffic signs
Reliability Assessment of Highway Truss Sign Supports. — Jun Yang and John T. DeWolf; 128(11), 1429-38 (2002).

Transient response
Dynamic Vehicle Element Method for Transient Response of Coupled Vehicle-Structure Systems. — Tso-Chien Pan and Jing Li; 128(2), 214-23 (2002).

Trusses
T-Bracing for Stability of Compression Webs in Wood Trusses. — Robert Leichti, Isabelle Hofacker, Ping Cheng, and Thomas McLain; 128(3), 374-81 (2002).
Reliability Assessment of Highway Truss Sign Supports. — Jun Yang and John T. DeWolf; 128(11), 1429-38 (2002).

Tubes
Experimental Behavior of High Strength Square Concrete-Filled Steel Tube Beam-Columns. — Amit H. Varma, James M. Ricles, Richard Sause, and Le-Wu Lu; 128(3), 309-18 (2002).
Experimental Study of Bolted HSS Flange-Plate Connections in Axial Tension. — S. Willibald, J. A. Packer, and R. S. Puthli; 128(3), 328-36 (2002).
Axial Load Behavior of Stiffened Concrete-Filled Steel Columns. — C. S. Huang, Y.-K. Yeh, G.-Y. Liu, H.-T. Hu, K. C. Tsai, Y. T. Weng, S. H. Wang, and M.-H. Wu; 128(9), 1222-30 (2002).

Turbulence
Definition of Wind Profiles in ASCE 7. — Yin Zhou and Ahsan Kareem; 128(8), 1082-6 (2002).

Ultimate loads
Analysis of Plane Stress Ductile Fracture Propagation by Simulating Necking. — Robert J. Dexter and Michael L. Gentilcore; 128(8), 1003-11 (2002).

Ultimate strength
Strength and Ductility of Steel Box Girders under Cyclic Shear. — Praween Chusilp and Tsutomu Usami; 128(9), 1130-8 (2002).
Database-Assisted Wind Load Capacity Estimates for Low-Rise Steel Frames. — Seokkwon Jang, Le-Wu Lu, Fahim Sadek, and Emil Simiu; 128(12), 1594-603 (2002).

Uncertainty
Seismic Critical Excitation Method for Robust Design: A Review. — Izuru Takewaki; 128(5), 665-72 (2002).

Vapor pressure
Analytical Method for Calculation of Deformations and Stresses of Wall Plates of Dry Gas Holders Under Pressure. — L. H. You, J. J. Zhang, H. B. Wu, and R. B. Sun; 128(1), 125-8 (2002).

Vehicles
Dynamic Vehicle Element Method for Transient Response of Coupled Vehicle-Structure Systems. — Tso-Chien Pan and Jing Li; 128(2), 214-23 (2002).

Vibration
Improved Computation of Stress Resultants in the *p*-Ritz Method. — C. M. Wang, Y. C. Wang, J. N. Reddy, and V. Thevendran; 128(2), 249-57 (2002).
Wind-Induced Vibration and Control of Trans-Tokyo Bay Crossing Bridge. — Yozo Fujino and Yoshitaka Yoshida; 128(8), 1012-25 (2002).
Alternative Approach for Free Vibration of Beams Carrying A Number of Two-Degree of Freedom Spring-Mass Systems. — Jia-Jang Wu; 128(12), 1604-16 (2002).

Vibration control
Further Characteristics for Multiple Tuned Mass Dampers. — Chunxiang Li and Yanxia Liu; 128(10), 1362-5 (2002).

Waffle-slab
Seismic Evaluation of Gravity-Load-Designed Column-Grid System. — Khalid M. Mosalam and Clay J. Naito; 128(2), 160-8 (2002).

Walls
Analytical Method for Calculation of Deformations and Stresses of Wall Plates of Dry Gas Holders Under Pressure. — L. H. You, J. J. Zhang, H. B. Wu, and R. B. Sun; 128(1), 125-8 (2002).
Arching in Masonry Walls Subjected to Earthquake Motions. — Athanasios Dafnis, Holger Kolsch, and Hans-Günter Reimerdes; 128(2), 153-9 (2002).
Nonlinear Behavior of Posttensioned Hybrid Coupled Wall Subassemblages. — Qiang Shen and Yahya C. Kurama; 128(10), 1290-300 (2002).
Wind Sensitivity of Recycled Plastic Soundwalls. — Steven T. Esche and Paul N. Roschke; 128(11), 1462-9 (2002).

Wave propagation
Effect of Surface Cracks on Rayleigh Wave Propagation: An Experimental Study. — A. Zerwer, M. A. Polak, and J. C. Santamarina; 128(2), 240-8 (2002).
Distributed Structural Damage Generated by High-Frequency Ground Motion. — Guowei Ma, Hong Hao, Yong Lu, and Yingxin Zhou; 128(3), 390-9 (2002).
Closer Look at the Drift Demand Spectrum. — Juwhan Kim and Kevin R. Collins; 128(7), 942-5 (2002).

Web beams
Inelastic Cyclic Testing of Welded Unreinforced Moment Connections. — James M. Ricles, Changshi Mao, Le-Wu Lu, and John W. Fisher; 128(4), 429-40 (2002).

Webs
T-Bracing for Stability of Compression Webs in Wood Trusses. — Robert Leichti, Isabelle Hofacker, Ping Cheng, and Thomas McLain; 128(3), 374-81 (2002).
Web Crippling Behavior of Floor Joist/Rim Members in Built Assemblies. — R. L. Serrette; 128(9), 1177-85 (2002).

Welded joints
Fatigue Tests and Design of Thin Cold-Formed Square Hollow Section-to-Plate *T* Connections Under Cyclic In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao Ling Zhao, and Paul Grundy; 128(1), 22-31 (2002).

Wind
Wind Sensitivity of Recycled Plastic Soundwalls. — Steven T. Esche and Paul N. Roschke; 128(11), 1462-9 (2002).

Wind force
Database-Assisted Wind Load Capacity Estimates for Low-Rise Steel Frames. — Seokkwon Jang, Le-Wu Lu, Fahim Sadek, and Emil Simiu; 128(12), 1594-603 (2002).

Wind loads
Along-Wind Load Effects on Tall Buildings: Comparative Study of Major International Codes and Standards. — Yin Zhou, Tracy Kijewski, and Ahsan Kareem; 128(6), 788-96 (2002).
Definition of Wind Profiles in ASCE 7. — Yin Zhou and Ahsan Kareem; 128(8), 1082-6 (2002).

Wind speed
Definition of Wind Profiles in ASCE 7. — Yin Zhou and Ahsan Kareem; 128(8), 1082-6 (2002).

Wind tunnels
Wind-Induced Vibration and Control of Trans-Tokyo Bay Crossing Bridge. — Yozo Fujino and Yoshitaka Yoshida; 128(8), 1012-25 (2002).

Wind velocity
Along-Wind Load Effects on Tall Buildings: Comparative Study of Major International Codes and Standards. — Yin Zhou, Tracy Kijewski, and Ahsan Kareem; 128(6), 788-96 (2002).

Wood
Performance-Based Seismic Design of Wood Framed Buildings. — Andre Filiatrault and Bryan Folz; 128(1), 39-47 (2002).
Load and Resistance Factor Design of Timber Joints: International Practice and Future Direction. — Ian Smith and Greg Foliente; 128(1), 48-59 (2002).
T-Bracing for Stability of Compression Webs in Wood Trusses. — Robert Leichti, Isabelle Hofacker, Ping Cheng, and Thomas McLain; 128(3), 374-81 (2002).
Another Look at Load Duration Effects in Wood. — David V. Rosowsky and William M. Bulleit; 128(6), 824-8 (2002).

Wood beams
Stud Shear Connection Design for Composite Concrete Slab and Wood Beams. — Piero Gelfi, Ezio Giuriani, and Alessandra Marini; 128(12), 1544-50 (2002).

Wooden structures
Performance-Based Engineering of Wood Frame Housing: Fragility Analysis Methodology. — David V. Rosowsky and Bruce R. Ellingwood; 128(1), 32-8 (2002).

Capacity of Oriented Strand Board Shear Walls with Overdriven Sheathing Nails. — Scott N. Jones and Fernando S. Fonseca; 128(7), 898-907 (2002).

Seismic Testing of Two-Story Woodframe House: Influence of Wall Finish Materials. — Andre Filiatrault, David Fischer, Bryan Folz, and Chia-Ming Uang; 128(10), 1337-45 (2002).

Reliability-based Seismic Design of Wood Shear Walls. — David V. Rosowsky; 128(11), 1439-53 (2002).

Author Index

Adão da Fonseca, António Manuel
Organic Prestressing. — Pedro Alvares Ribeiro do Carmo Pacheco and António Manuel Adão da Fonseca; 128(3), 400-5 (2002).

Aktan, A. Emin
Condition and Damage Assessment: Issues and Some Promising Indices. — F. Necati Catbas and A. Emin Aktan; 128(8), 1026-36 (2002).

Al-Chaar, Ghassan
Behavior of Masonry-Infilled Nonductile Reinforced Concrete Frames. — Ghassan Al-Chaar, Mohsen Issa, and Steve Sweeney; 128(8), 1055-63 (2002).

Amalraj, R.
Discussion of "Prediction of Ultimate Shear Strength of Reinforced-Concrete Deep Beams Using Neural Networks" by A. Sanad and M. P. Saka. — Sundaramoorthy Rajasekaran and R. Amalraj; 128(12), 1623-4 (2002).

Amde, Amde M.
Stability Tests of Sandwich Composite Elastica Arches. — Amde M. Amde, Amir Mirmiran, and David Nelsen; 128(5), 683-6 (2002).
Finite Element Analysis of Infilled Frames. — Asok K. Ghosh and Amde M. Amde; 128(7), 881-9 (2002).

Anderson, James C.
Cyclic Testing of Moment Connections Upgraded with Weld Overlays. — James C. Anderson, Jean Duan, Yan Xiao, and Peter Maranian; 128(4), 509-16 (2002).

Ariyawardena, Nihal
Prestressing with Unbonded Internal or External Tendons: Analysis and Computer Model. — Nihal Ariyawardena and Amin Ghali; 128(12), 1493-501 (2002).

Arora, Jasbir S.
Optimal Design of Latticed Towers Subjected to Earthquake Loading. — Fatma Y. Kocer and Jasbir S. Arora; 128(2), 197-204 (2002).
Optimization of Elevated Concrete Foundations for Vibrating Machines. — Marcelo A. Silva, Jasbir S. Arora, Colby C. Swan, and Reyolando M. L. R. F. Brasil; 128(11), 1470-9 (2002).

Arroyo, Benjamin Suárez
Optimum Design of Multicellular Reinforced Concrete Box Docks. — Benjamín Suárez Arroyo, Alex D. Hanganu, and Juan Miquel Canet; 128(5), 603-11 (2002).

Ayyub, Bilal M.
Reliability Assessment of Pile Groups in Sands. — Khaled H. Eloseily, Bilal M. Ayyub, and Robert Patev; 128(10), 1346-53 (2002).

Barroso, Luciana R.
Performance Evaluation of Controlled Steel Frames under Multilevel Seismic Loads. — Luciana R. Barroso, Scott E. Breneman, and H. Allison Smith; 128(11), 1368-78 (2002).

Bartels, Peter A.
Net Section Rupture in Tension Members with Connection Eccentricity. — James G. Orbison, Karl E. Barth, and Peter A. Bartels; 128(8), 976-85 (2002).

Barth, Karl E.
Net Section Rupture in Tension Members with Connection Eccentricity. — James G. Orbison, Karl E. Barth, and Peter A. Bartels; 128(8), 976-85 (2002).

Baskar, K.
Finite-Element Analysis of Steel–Concrete Composite Plate Girder. — K. Baskar, N. E. Shanmugam, and V. Thevendran; 128(9), 1158-68 (2002).

Bastien, Josée
Finite-Element Bond-Slip Model for Concrete Columns under Cyclic Loads. — Claire Girard and Josée Bastien; 128(12), 1502-10 (2002).

Bažant, Zdeněk P.
Size Effect Hidden in Excessive Dead Load Factor. — Zdeněk P. Bažant and Dan M. Frangopol; 128(1), 80-6 (2002).

Beck, Hermann
Net Section Efficiency of Steel Coupons with Power Actuated Fasteners. — Hermann Beck and Michael D. Engelhardt; 128(1), 12-21 (2002).

Bertero, V. V.
Cover-Plate and Flange-Plate Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 474-82 (2002).
Experimental Evaluation of Plate-Reinforced Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 483-91 (2002).

Bradford, Mark Andrew
Elastic Flexural-Torsional Buckling of Discretely Restrained Arches. — Mark Andrew Bradford and Yong-Lin Pi; 128(6), 719-27 (2002).

Bradshaw, Richard
Special Structures: Past, Present, and Future. — Richard Bradshaw, David Campbell, Mousa Gargari, Amir Mirmiran, and Patrick Tripeny; 128(6), 691-709 (2002).

Brasil, Reyolando M. L. R. F.
Optimization of Elevated Concrete Foundations for Vibrating Machines. — Marcelo A. Silva, Jasbir S. Arora, Colby C. Swan, and Reyolando M. L. R. F. Brasil; 128(11), 1470-9 (2002).

Breneman, Scott E.
Performance Evaluation of Controlled Steel Frames under Multilevel Seismic Loads. — Luciana R. Barroso, Scott E. Breneman, and H. Allison Smith; 128(11), 1368-78 (2002).

Bridge, Russell Q.
Closure to "Design of Circular Thin-Walled Concrete Filled Steel Tubes" by Martin D. O'Shea, M.ASCE and Russel Q. Bridge, F.ASCE. — Martin D. O'Shea and Russell Q. Bridge; 128(1), 134-5 (2002).

Bucker, C. Dale
Editor's Note. — C. Dale Bucker; 128(12), 1491-2 (2002).

Buckle, Ian
Stability of Elastomeric Isolation Bearings: Experimental Study. — Ian Buckle, Satish Nagarajaiah, and Keith Ferrell; 128(1), 3-11 (2002).

Buckner, C. Dale
Editor's Note. — C. Dale Buckner; 128(3), 277-8 (2002).
Editor's Note. — C. Dale Buckner; 128(5), 557-8 (2002).
Editor's Note. — C. Dale Buckner; 128(6), 689-90 (2002).
Editor's Note. — C. Dale Buckner; 128(7), 839 (2002).
Editor's Note. — C. Dale Buckner; 128(8), 963-4 (2002).
Editor's Note. — C. Dale Buckner; 128(9), 1095-6 (2002).
Editor's Note. — C. Dale Buckner; 128(10), 1242 (2002).
Editor's Note. — C. Dale Buckner; 128(11), 1367 (2002).

Bulleit, William M.
Another Look at Load Duration Effects in Wood. — David V. Rosowsky and William M. Bulleit; 128(6), 824-8 (2002).

Burns, Scott A.
Fully Stressed Design of Frame Structures and Multiple Load Paths. — Keith M. Mueller, Min Liu, and Scott A. Burns; 128(6), 806-14 (2002).

Button, Martin R.
Effect of Vertical Motions on Seismic Response of Highway Bridges. — Martin R. Button, Colman J. Cronin, and Ronald L. Mayes; 128(12), 1551-64 (2002).

Byun, Keun-Joo
Failure Analysis of Reinforced Concrete Shell Structures using Layered Shell Element with Pressure Node. — Ha-Wong Song, Sang-Hyo Shim, Keun-Joo Byun, and Koichi Maekawa; 128(5), 655-64 (2002).

Campbell, David
Special Structures: Past, Present, and Future. — Richard Bradshaw, David Campbell, Mousa Gargari, Amir Mirmiran, and Patrick Tripeny; 128(6), 691-709 (2002).

Canet, Juan Miquel
Optimum Design of Multicellular Reinforced Concrete Box Docks. — Benjamín Suárez Arroyo, Alex D. Hanganu, and Juan Miquel Canet; 128(5), 603-11 (2002).

Catbas, F. Necati
Condition and Damage Assessment: Issues and Some Promising Indices. — F. Necati Catbas and A. Emin Aktan; 128(8), 1026-36 (2002).

Chai, Y. H.
Flexural Strength and Ductility of Extended Pile-Shafts. I: Analytical Model. — Y. H. Chai; 128(5), 586-94 (2002).
Flexural Strength and Ductility of Extended Pile-Shafts. II: Experimental Study. — Y. H. Chai and Tara C. Hutchinson; 128(5), 595-602 (2002).

Chan, T. K.
Stress Concentration Factors of Doubler Plate Reinforced Tubular T Joints. — T. C. Fung, C. K. Soh, T. K. Chan, and Erni; 128(11), 1399-412 (2002).

Chang, C. C.
Structural Damage Assessment Based on Wavelet Packet Transform. — Z. Sun and C. C. Chang; 128(10), 1354-61 (2002).

Chang, Chih-Chen
Neural Network Emulation of Inverse Dynamics for a Magnetorheological Damper. — Chih-Chen Chang and Li Zhou; 128(2), 231-9 (2002).

Chang, Sung-Pil
Experimental Investigation of System-Identification-Based Damage Assessment on Structures. — Jeong-Hwan Jang, Inho Yeo, Soobong Shin, and Sung-Pil Chang; 128(5), 673-82 (2002).

Cheng, Ping
T-Bracing for Stability of Compression Webs in Wood Trusses. — Robert Leichti, Isabelle Hofacker, Ping Cheng, and Thomas McLain; 128(3), 374-81 (2002).

Chi, Brandon
Cyclic Response and Design Recommendations of Reduced Beam Section Moment Connections with Deep Columns. — Brandon Chi and Chia-Ming Uang; 128(4), 464-73 (2002).

Chicoine, Thierry
Behavior and Strength of Partially Encased Composite Columns with Built-up Shapes. — Thierry Chicoine, Robert Tremblay, Bruno Massicotte, James M. Ricles, and Le-Wu Lu; 128(3), 279-88 (2002).

Choo, Y. S.
Advanced Analysis for Performance-based Design of Steel Structures Exposed to Fires. — J. Y. Richard Liew, L. K. Tang, and Y. S. Choo; 128(12), 1584-93 (2002).

Christopoulos, Constantin
Posttensioned Energy Dissipating Connections for Moment-Resisting Steel Frames. — Constantin Christopoulos, Andre Filiatrault, Chia-Ming Uang, and Bryan Folz; 128(9), 1111-20 (2002).

Chusilp, Praween
New Elastic Stability Formulas for Multiple-Stiffened Shear Panels. — Praween Chusilp and Tsutomu Usami; 128(6), 833-6 (2002).
Strength and Ductility of Steel Box Girders under Cyclic Shear. — Praween Chusilp and Tsutomu Usami; 128(9), 1130-8 (2002).

Clarke, Murray J.
Closure to "Plastic-Zone Analysis of 3D Steel Frames Using Beam Elements" by Lip H. Teh and Murray J. Clarke. — Lip H. Teh and Murray J. Clarke; 128(9), 1237-9 (2002).

Collins, Kevin R.
Closer Look at the Drift Demand Spectrum. — Juwhan Kim and Kevin R. Collins; 128(7), 942-5 (2002).

Committee on Des. of Steel Build. Struct. of the Tech. Admin. Commit. on Metals
Compendium of Design Office Problems—Volume III. — Committee on Des. of Steel Build. Struct. of the Tech. Admin. Commit. on Metals; 128(5), 559-68 (2002).

Cornell, C. Allin
Probabilistic Basis for 2000 SAC Federal Emergency Management Agency Steel Moment Frame Guidelines. — C. Allin Cornell, Fatemeh Jalayer, Ronald O. Hamburger, and Douglas A. Foutch; 128(4), 526-33 (2002).
Seismic Performance Evaluation for Steel Moment Frames. — Seung-Yul Yun, Ronald O. Hamburger, C. Allin Cornell, and Douglas A. Foutch; 128(4), 534-45 (2002).

Creazza, Giuseppe
Analyses of Masonry Vaults: A Macro Approach based on Three-Dimensional Damage Model. — Giuseppe Creazza, Renato Matteazzi, Anna Saetta, and Renato Vitaliani; 128(5), 646-54 (2002).

Cronin, Colman J.
Effect of Vertical Motions on Seismic Response of Highway Bridges. — Martin R. Button, Colman J. Cronin, and Ronald L. Mayes; 128(12), 1551-64 (2002).

Dafnis, Athanasios
Arching in Masonry Walls Subjected to Earthquake Motions. — Athanasios Dafnis, Holger Kolsch, and Hans-Günter Reimerdes; 128(2), 153-9 (2002).

Dancygier, A. N.
Empirical Investigation of Flexural Reinforced Concrete Elements with High Compression Reinforcement Ratios. — A. N. Dancygier and R. Eid; 128(5), 578-85 (2002).

Davalos, Julio F.
Closure to "Local Buckling of Composite FRP Shapes by Discrete Plate Analysis" by Pizhong Qiao, Julio F. Davalos, and Jialai Wang. — Pizhong Qiao, Julio F. Davalos, and Jialai Wang; 128(8), 1093 (2002).

De Angelis, Charles
Snow Drifts at Windward Roof Steps. — Michael O'Rourke and Charles De Angelis; 128(10), 1330-6 (2002).

De Roeck, Guido
Structural Damage Identification using Modal Data. I: Simulation Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 87-95 (2002).
Structural Damage Identification using Modal Data. II: Test Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 96-104 (2002).

DesRoches, Reginald
Effect of Pounding and Restrainers on Seismic Response of Multiple-Frame Bridges. — Reginald DesRoches and Susendar Muthukumar; 128(7), 860-9 (2002).

DeWolf, John T.
Reliability Assessment of Highway Truss Sign Supports. — Jun Yang and John T. DeWolf; 128(11), 1429-38 (2002).

Dexter, Robert J.
Analysis of Plane Stress Ductile Fracture Propagation by Simulating Necking. — Robert J. Dexter and Michael L. Gentilcore; 128(8), 1003-11 (2002).

Dhakal, Rajesh Prasad
Modeling for Postyield Buckling of Reinforcement. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(9), 1139-47 (2002).
Reinforcement Stability and Fracture of Cover Concrete in Reinforced Concrete Members. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(10), 1253-62 (2002).

Dill, Jason C.
Transfer and Development Length of 15-mm Strand in High Performance Concrete Girders. — Lawrence F. Kahn, Jason C. Dill, and Chris G. Reutlinger; 128(7), 913-21 (2002).

Drakopoulos, Christos G.
Evaluation of Simplified Models for Lateral Load Analysis of Unreinforced Masonry Buildings. — Andreas J. Kappos, Gregory G. Penelis, and Christos G. Drakopoulos; 128(7), 890-7 (2002).

Duan, Jean
Cyclic Testing of Moment Connections Upgraded with Weld Overlays. — James C. Anderson, Jean Duan, Yan Xiao, and Peter Maranian; 128(4), 509-16 (2002).

Eckel, D. A., II
Shear Stud Connections for the Development of Composite Action between Steel Girders and Fiber-Reinforced Polymer Bridge Decks. — F. L. Moon, II, D. A. Eckel, II, and J. W. Gillespie, Jr.; 128(6), 762-70 (2002).

Eid, R.
Empirical Investigation of Flexural Reinforced Concrete Elements with High Compression Reinforcement Ratios. — A. N. Dancygier and R. Eid; 128(5), 578-85 (2002).

Ellingwood, Bruce R.
Performance-Based Engineering of Wood Frame Housing: Fragility Analysis Methodology. — David V. Rosowsky and Bruce R. Ellingwood; 128(1), 32-8 (2002).

Eloseily, Khaled H.
Reliability Assessment of Pile Groups in Sands. — Khaled H. Eloseily, Bilal M. Ayyub, and Robert Patev; 128(10), 1346-53 (2002).

El-Sawy, K. M.
Inelastic Stability of Loosely Fitted Cylindrical Liners. — K. M. El-Sawy; 128(7), 934-41 (2002).

El-Tawil, Sherif
Pushover of Hybrid Coupled Walls. I: Design and Modeling. — Sherif El-Tawil, Christopher M. Kuenzli, and Mohammad Hassan; 128(10), 1272-81 (2002).
Pushover of Hybrid Coupled Walls. II: Analysis and Behavior. — Sherif El-Tawil and Christopher M. Kuenzli; 128(10), 1282-9 (2002).

Engelhardt, Michael D.
Net Section Efficiency of Steel Coupons with Power Actuated Fasteners. — Hermann Beck and Michael D. Engelhardt; 128(1), 12-21 (2002).
Experimental Evaluation of Cyclically Loaded Reduced Beam Section Moment Connections. — Scott L. Jones, Gary T. Fry, and Michael D. Engelhardt; 128(4), 441-51 (2002).

Epaarachchi, Deepthi C.
Structural Reliability of Multistory Buildings during Construction. — Deepthi C. Epaarachchi, Mark G. Stewart, and David V. Rosowsky; 128(2), 205-13 (2002).

Erni
Stress Concentration Factors of Doubler Plate Reinforced Tubular T Joints. — T. C. Fung, C. K. Soh, T. K. Chan, and Erni; 128(11), 1399-412 (2002).

Esche, Steven T.
Wind Sensitivity of Recycled Plastic Soundwalls. — Steven T. Esche and Paul N. Roschke; 128(11), 1462-9 (2002).

Fan, Zhanfei "Tom"
Distortional Loads and Brace Forces in Steel Box Girders. — Zhanfei "Tom" Fan and Todd A. Helwig; 128(6), 710-8 (2002).

Fantilli, Alessandro P.
Mechanical Model for Failure of Compressed Concrete in Reinforced Concrete Beams. — Alessandro P. Fantilli, Daniele Ferretti, Ivo Iori, and Paolo Vallini; 128(5), 637-45 (2002).

Ferrell, Keith
Stability of Elastomeric Isolation Bearings: Experimental Study. — Ian Buckle, Satish Nagarajaiah, and Keith Ferrell; 128(1), 3-11 (2002).

Ferretti, Daniele
Mechanical Model for Failure of Compressed Concrete in Reinforced Concrete Beams. — Alessandro P. Fantilli, Daniele Ferretti, Ivo Iori, and Paolo Vallini; 128(5), 637-45 (2002).

Filiatrault, Andre
Performance-Based Seismic Design of Wood Framed Buildings. — Andre Filiatrault and Bryan Folz; 128(1), 39-47 (2002).
Posttensioned Energy Dissipating Connections for Moment-Resisting Steel Frames. — Constantin Christopoulos, Andre Filiatrault, Chia-Ming Uang, and Bryan Folz; 128(9), 1111-20 (2002).
Seismic Testing of Two-Story Woodframe House: Influence of Wall Finish Materials. — Andre Filiatrault, David Fischer, Bryan Folz, and Chia-Ming Uang; 128(10), 1337-45 (2002).

Fischer, David
Seismic Testing of Two-Story Woodframe House: Influence of Wall Finish Materials. — Andre Filiatrault, David Fischer, Bryan Folz, and Chia-Ming Uang; 128(10), 1337-45 (2002).

Fisher, John W.
Inelastic Cyclic Testing of Welded Unreinforced Moment Connections. — James M. Ricles, Changshi Mao, Le-Wu Lu, and John W. Fisher; 128(4), 429-40 (2002).

Foliente, Greg
Load and Resistance Factor Design of Timber Joints: International Practice and Future Direction. — Ian Smith and Greg Foliente; 128(1), 48-59 (2002).

Folz, Bryan
Performance-Based Seismic Design of Wood Framed Buildings. — Andre Filiatrault and Bryan Folz; 128(1), 39-47 (2002).
Posttensioned Energy Dissipating Connections for Moment-Resisting Steel Frames. — Constantin Christopoulos, Andre Filiatrault, Chia-Ming Uang, and Bryan Folz; 128(9), 1111-20 (2002).
Seismic Testing of Two-Story Woodframe House: Influence of Wall Finish Materials. — Andre Filiatrault, David Fischer, Bryan Folz, and Chia-Ming Uang; 128(10), 1337-45 (2002).

Fonseca, Fernando S.
Capacity of Oriented Strand Board Shear Walls with Overdriven Sheathing Nails. — Scott N. Jones and Fernando S. Fonseca; 128(7), 898-907 (2002).

Foster, Stephen J.
Evaluation of Efficiency Factor Models used in Strut-and-Tie Modeling of Nonflexural Members. — Stephen J. Foster and Adnan R. Malik; 128(5), 569-77 (2002).

Foutch, Douglas A.
Probabilistic Basis for 2000 SAC Federal Emergency Management Agency Steel Moment Frame Guidelines. — C. Allin Cornell, Fatemeh Jalayer, Ronald O. Hamburger, and Douglas A. Foutch; 128(4), 526-33 (2002).
Seismic Performance Evaluation for Steel Moment Frames. — Seung-Yul Yun, Ronald O. Hamburger, C. Allin Cornell, and Douglas A. Foutch; 128(4), 534-45 (2002).
Seismic Performance Evaluation of Pre-Northridge Steel Frame Buildings with Brittle Connections. — Kihak Lee and Douglas A. Foutch; 128(4), 546-55 (2002).

Frangopol, Dan M.
Size Effect Hidden in Excessive Dead Load Factor. — Zdeněk P. Bažant and Dan M. Frangopol; 128(1), 80-6 (2002).
Closure to "Response Prediction of Geometrically Nonlinear Structures" by Kiyohiro Imai and Dan M. Frangopol. — Kiyohiro Imai and Dan M. Frangopol; 128(7), 960-1 (2002).

Fry, Gary T.
Experimental Evaluation of Cyclically Loaded Reduced Beam Section Moment Connections. — Scott L. Jones, Gary T. Fry, and Michael D. Engelhardt; 128(4), 441-51 (2002).

Fujii, K.
Cyclic Behavior of Perforated Stiffened Plates under Axial Forces. — K. Fujii; 128(6), 779-87 (2002).

Fujii, Shigeru
Local Stresses and Crack Displacements in Reinforced Concrete Elements. — Yuichi Sato and Shigeru Fujii; 128(10), 1263-71 (2002).

Fujino, Yozo
Wind-Induced Vibration and Control of Trans-Tokyo Bay Crossing Bridge. — Yozo Fujino and Yoshitaka Yoshida; 128(8), 1012-25 (2002).

Fung, T. C.
Stress Concentration Factors of Doubler Plate Reinforced Tubular T Joints. — T. C. Fung, C. K. Soh, T. K. Chan, and Erni; 128(11), 1399-412 (2002).

Galambos, Janos
Closure to "Classical Extreme Value Model and Prediction of Extreme Winds" by Janos Galambos and Nicholas Macri. — Janos Galambos and Nicholas Macri; 128(2), 273-5 (2002).

Gargari, Mousa
Special Structures: Past, Present, and Future. — Richard Bradshaw, David Campbell, Mousa Gargari, Amir Mirmiran, and Patrick Tripeny; 128(6), 691-709 (2002).

Gasparini, D.
Geometrically Nonlinear Static Behavior of Cable Structures. — D. Gasparini and V. Gautam; 128(10), 1317-29 (2002).

Gasparini, D. A.
Contributions of C. A. P. Turner to Development of Reinforced Concrete Flat Slabs 1905–1909. — D. A. Gasparini; 128(10), 1243-52 (2002).

Gautam, V.
Geometrically Nonlinear Static Behavior of Cable Structures. — D. Gasparini and V. Gautam; 128(10), 1317-29 (2002).

Gazzola, Fabio
Assessment of Strength Equations for Overlapped Tubular *K*-Joints. — Fabio Gazzola and Marcus M. K. Lee; 128(1), 119-24 (2002).

Gelfi, Piero
Stud Shear Connection Design for Composite Concrete Slab and Wood Beams. — Piero Gelfi, Ezio Giuriani, and Alessandra Marini; 128(12), 1544-50 (2002).

Gentilcore, Michael L.
Analysis of Plane Stress Ductile Fracture Propagation by Simulating Necking. — Robert J. Dexter and Michael L. Gentilcore; 128(8), 1003-11 (2002).

Gerstle, Kurt H.
Review of *Construction in cities: Social, environmental, political and economic concerns* by Patricia J. Lancaster. — Kurt H. Gerstle; 128(12), 1626 (2002).

Ghali, Amin
Cracking and Deformability of Concrete Flexural Sections with Fiber Reinforced Polymer. — John Newhook, Amin Ghali, and Gamil Tadros; 128(9), 1195-201 (2002).
Prestressing with Unbonded Internal or External Tendons: Analysis and Computer Model. — Nihal Ariyawardena and Amin Ghali; 128(12), 1493-501 (2002).

Ghavamian, Shahrokh
Error Indicator to Assess Quality of Finite-Element Frame Analyses. — Shahrokh Ghavamian, Gilles Pijaudier-Cabot, and Jacky Mazars; 128(1), 129-32 (2002).

Ghosh, Asok K.
Finite Element Analysis of Infilled Frames. — Asok K. Ghosh and Amde M. Amde; 128(7), 881-9 (2002).

Ghosn, Ahmad Ali
Deflection of Nested Cold-Formed Steel Z-Section Beams. — Ahmad Ali Ghosn; 128(11), 1423-8 (2002).

Gilani, A. S. J.
Cover-Plate and Flange-Plate Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 474-82 (2002).
Experimental Evaluation of Plate-Reinforced Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 483-91 (2002).

Gillespie, J. W., Jr.
Shear Stud Connections for the Development of Composite Action between Steel Girders and Fiber-Reinforced Polymer Bridge Decks. — F. L. Moon, II, D. A. Eckel, II, and J. W. Gillespie, Jr.; 128(6), 762-70 (2002).

Gilton, Chad S.
Cyclic Response and Design Recommendations of Weak-Axis Reduced Beam Section Moment Connections. — Chad S. Gilton and Chia-Ming Uang; 128(4), 452-63 (2002).

Girard, Claire
Finite-Element Bond-Slip Model for Concrete Columns under Cyclic Loads. — Claire Girard and Josée Bastien; 128(12), 1502-10 (2002).

Giuriani, Ezio
Stud Shear Connection Design for Composite Concrete Slab and Wood Beams. — Piero Gelfi, Ezio Giuriani, and Alessandra Marini; 128(12), 1544-50 (2002).

Goel, Subhash C.
Energy-based Seismic Design of Structures using Yield Mechanism and Target Drift. — Sutat Leelataviwat, Subhash C. Goel, and Božidar Stojadinović; 128(8), 1046-54 (2002).

Goh, A. T. C.
Discussion of "Prediction of Ultimate Shear Strength of Reinforced-Concrete Deep Beams Using Neural Networks" by A. Sanad and M. P. Saka. — A. T. C. Goh; 128(12), 1624 (2002).

Goo, Nam Seo
Formula for Stiffness of Bolted-Joint Members with Sleeve and Its Applications. — Y. D. Kwon, Nam Seo Goo, T. H. Yun, and J. K. Park; 128(7), 951-5 (2002).

Goto, Yoshiaki
Hysteretic Modeling of Thin-Walled Circular Steel Columns under Biaxial Bending. — Lizhi Jiang, Yoshiaki Goto, and Makoto Obata; 128(3), 319-27 (2002).

Grundy, Paul
Fatigue Tests and Design of Thin Cold-Formed Square Hollow Section-to-Plate *T* Connections Under Cyclic In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao Ling Zhao, and Paul Grundy; 128(1), 22-31 (2002).
Fatigue Tests and Design of Welded T Connections in Thin Cold-Formed Square Hollow Sections Under In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao-Ling Zhao, and Paul Grundy; 128(11), 1413-22 (2002).

Grzebieta, Raphael
Void-Filled Cold-Formed Rectangular Hollow Section Braces Subjected to Large Deformation Cyclic Axial Loading. — Xiao-Ling Zhao, Raphael Grzebieta, and Chen Lee; 128(6), 746-53 (2002).

Gu, Ming
Closure to "Equivalent Static Buffeting Loads on Structures" by Yin Zhou, Ahsan Kareem, and Ming Gu. — Yin Zhou, Ahsan Kareem, and Ming Gu; 128(3), 411-2 (2002).

Guo, Zhenhai
Effect of Force-Temperature Paths on Behaviors of Reinforced Concrete Flexural Members. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(3), 365-73 (2002).
Concrete Constitutive Relationships Under Different Stress-Temperature Paths. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(12), 1511-8 (2002).

Gupta, Abhinav
Redundancy in Residual Vectors for Missing Mass Effect in Coupled Modal Synthesis. — Jun Zhao and Abhinav Gupta; 128(9), 1231-5 (2002).

Gylltoft, Kent
Mechanical Behavior of Circular Steel–Concrete Composite Stub Columns. — Mathias Johansson and Kent Gylltoft; 128(8), 1073-81 (2002).

Hamburger, Ronald O.
Probabilistic Basis for 2000 SAC Federal Emergency Management Agency Steel Moment Frame Guidelines. — C. Allin Cornell, Fatemeh Jalayer, Ronald O. Hamburger, and Douglas A. Foutch; 128(4), 526-33 (2002).
Seismic Performance Evaluation for Steel Moment Frames. — Seung-Yul Yun, Ronald O. Hamburger, C. Allin Cornell, and Douglas A. Foutch; 128(4), 534-45 (2002).

Hancock, Gregory J.
Tests of Channels Subjected to Combined Bending and Web Crippling. — Ben Young and Gregory J. Hancock; 128(3), 300-8 (2002).

Hanganu, Alex D.
Optimum Design of Multicellular Reinforced Concrete Box Docks. — Benjamín Suárez Arroyo, Alex D. Hanganu, and Juan Miquel Canet; 128(5), 603-11 (2002).

Hao, Hong
Distributed Structural Damage Generated by High-Frequency Ground Motion. — Guowei Ma, Hong Hao, Yong Lu, and Yingxin Zhou; 128(3), 390-9 (2002).

Hartono, Wibisono
Compression Tests of Stainless Steel Tubular Members. — Ben Young and Wibisono Hartono; 128(6), 754-61 (2002).

Hassan, Mohammad
Pushover of Hybrid Coupled Walls. I: Design and Modeling. — Sherif El-Tawil, Christopher M. Kuenzli, and Mohammad Hassan; 128(10), 1272-81 (2002).

Helwig, Todd A.
Distortional Loads and Brace Forces in Steel Box Girders. — Zhanfei "Tom" Fan and Todd A. Helwig; 128(6), 710-8 (2002).

Hofacker, Isabelle
T-Bracing for Stability of Compression Webs in Wood Trusses. — Robert Leichti, Isabelle Hofacker, Ping Cheng, and Thomas McLain; 128(3), 374-81 (2002).

Holmes, J. D.
Discussion of "Classical Extreme Value Model and Prediction of Extreme Winds," by Janos Galambos and Nicholas Macri. — J. D. Holmes; 128(2), 273 (2002).

Holmes, John D.
Discussion of "Equivalent Static Buffeting Loads on Structures" by Yin Zhou, Ahsan Kareem, and Ming Gu. — John D. Holmes and Michael Kasperski; 128(3), 411 (2002).

Hong, H. P.
Appraisal of Reciprocal Load Method for Reinforced Concrete Columns of Normal and High Strength Concrete. — W. Wang and H. P. Hong; 128(11), 1480-6 (2002).

Hsu, Thomas T. C.
Discussion of "Disturbed Stress Field Model for Reinforced Concrete: Formulation" by F. J. Vecchio. — Thomas T. C. Hsu; 128(11), 1487-8 (2002).

Hu, H.-T.
Axial Load Behavior of Stiffened Concrete-Filled Steel Columns. — C. S. Huang, Y.-K. Yeh, G.-Y. Liu, H.-T. Hu, K. C. Tsai, Y. T. Weng, S. H. Wang, and M.-H. Wu; 128(9), 1222-30 (2002).

Huang, C. S.
Axial Load Behavior of Stiffened Concrete-Filled Steel Columns. — C. S. Huang, Y.-K. Yeh, G.-Y. Liu, H.-T. Hu, K. C. Tsai, Y. T. Weng, S. H. Wang, and M.-H. Wu; 128(9), 1222-30 (2002).

Huang, Z. F.
Visco-Elasto-Plastic Analysis of Steel Frames in Fire. — K. H. Tan, S. K. Ting, and Z. F. Huang; 128(1), 105-14 (2002).

Hutchinson, Tara C.
Flexural Strength and Ductility of Extended Pile-Shafts. II: Experimental Study. — Y. H. Chai and Tara C. Hutchinson; 128(5), 595-602 (2002).

Hwang, Shyh-Jiann
Strength Prediction for Discontinuity Regions by Softened Strut-and-Tie Model. — Shyh-Jiann Hwang and Hung-Jen Lee; 128(12), 1519-26 (2002).

Imai, Kiyohiro
Closure to "Response Prediction of Geometrically Nonlinear Structures" by Kiyohiro Imai and Dan M. Frangopol. — Kiyohiro Imai and Dan M. Frangopol; 128(7), 960-1 (2002).

Iori, Ivo
Mechanical Model for Failure of Compressed Concrete in Reinforced Concrete Beams. — Alessandro P. Fantilli, Daniele Ferretti, Ivo Iori, and Paolo Vallini; 128(5), 637-45 (2002).

Issa, Mohsen
Behavior of Masonry-Infilled Nonductile Reinforced Concrete Frames. — Ghassan Al-Chaar, Mohsen Issa, and Steve Sweeney; 128(8), 1055-63 (2002).

Iwan, Wilfred D.
Active Interaction Control of Tall Buildings Subjected to Near-Field Ground Motions. — Yunfeng Zhang and Wilfred D. Iwan; 128(1), 69-79 (2002).

Jalayer, Fatemeh
Probabilistic Basis for 2000 SAC Federal Emergency Management Agency Steel Moment Frame Guidelines. — C. Allin Cornell, Fatemeh Jalayer, Ronald O. Hamburger, and Douglas A. Foutch; 128(4), 526-33 (2002).

Jang, Jeong-Hwan
Experimental Investigation of System-Identification-Based Damage Assessment on Structures. — Jeong-Hwan Jang, Inho Yeo, Soobong Shin, and Sung-Pil Chang; 128(5), 673-82 (2002).

Jang, Seokkwon
Database-Assisted Wind Load Capacity Estimates for Low-Rise Steel Frames. — Seokkwon Jang, Le-Wu Lu, Fahim Sadek, and Emil Simiu; 128(12), 1594-603 (2002).

Jenkins, W. M.
Structural Reanalysis using a Neural Network-based Iterative Method. — W. M. Jenkins; 128(7), 946-50 (2002).

Jiang, Lizhi
Hysteretic Modeling of Thin-Walled Circular Steel Columns under Biaxial Bending. — Lizhi Jiang, Yoshiaki Goto, and Makoto Obata; 128(3), 319-27 (2002).

Jiang, M. H.
Experimental Study on Shear Splitting Failure of Full-Scale Composite Concrete Encased Steel Beams. — C. C. Weng, S. I. Yen, and M. H. Jiang; 128(9), 1186-94 (2002).

Johansson, Helena
Ductility Aspects in Nailed Glue Laminated Timber Connection Design. — Lars Stehn and Helena Johansson; 128(3), 382-9 (2002).

Johansson, Mathias
Mechanical Behavior of Circular Steel–Concrete Composite Stub Columns. — Mathias Johansson and Kent Gylltoft; 128(8), 1073-81 (2002).

Jones, Scott L.
Experimental Evaluation of Cyclically Loaded Reduced Beam Section Moment Connections. — Scott L. Jones, Gary T. Fry, and Michael D. Engelhardt; 128(4), 441-51 (2002).

Jones, Scott N.
Capacity of Oriented Strand Board Shear Walls with Overdriven Sheathing Nails. — Scott N. Jones and Fernando S. Fonseca; 128(7), 898-907 (2002).

Kahn, Lawrence F.
Transfer and Development Length of 15-mm Strand in High Performance Concrete Girders. — Lawrence F. Kahn, Jason C. Dill, and Chris G. Reutlinger; 128(7), 913-21 (2002).

Kanao, Iori
Lateral Instability and Lateral Bracing of Steel Beams Subjected to Cyclic Loading. — Masayoshi Nakashima, Iori Kanao, and Dawei Liu; 128(10), 1308-16 (2002).

Kappos, Andreas J.
Evaluation of Simplified Models for Lateral Load Analysis of Unreinforced Masonry Buildings. — Andreas J. Kappos, Gregory G. Penelis, and Christos G. Drakopoulos; 128(7), 890-7 (2002).

Kareem, Ahsan
Closure to "Equivalent Static Buffeting Loads on Structures" by Yin Zhou, Ahsan Kareem, and Ming Gu. — Yin Zhou, Ahsan Kareem, and Ming Gu; 128(3), 411-2 (2002).
Along-Wind Load Effects on Tall Buildings: Comparative Study of Major International Codes and Standards. — Yin Zhou, Tracy Kijewski, and Ahsan Kareem; 128(6), 788-96 (2002).
Definition of Wind Profiles in ASCE 7. — Yin Zhou and Ahsan Kareem; 128(8), 1082-6 (2002).

Kasperski, Michael
Discussion of "Equivalent Static Buffeting Loads on Structures" by Yin Zhou, Ahsan Kareem, and Ming Gu. — John D. Holmes and Michael Kasperski; 128(3), 411 (2002).

Kato, Masahiro
Second-Order Third-Moment Reliability Method. — Yan-Gang Zhao, Tetsuro Ono, and Masahiro Kato; 128(8), 1087-90 (2002).

Khaloo, Ali R.
Localization Analysis of Reinforced Concrete Members with Softening Behavior. — Ali R. Khaloo and Saeed Tariverdilo; 128(9), 1148-57 (2002).

Kijewski, Tracy
Along-Wind Load Effects on Tall Buildings: Comparative Study of Major International Codes and Standards. — Yin Zhou, Tracy Kijewski, and Ahsan Kareem; 128(6), 788-96 (2002).

Kim, Juwhan
Closer Look at the Drift Demand Spectrum. — Juwhan Kim and Kevin R. Collins; 128(7), 942-5 (2002).

Kim, T.
Cover-Plate and Flange-Plate Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 474-82 (2002).
Experimental Evaluation of Plate-Reinforced Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 483-91 (2002).

Kleeman, Peter W.
Probabilistic Crack Prediction for Masonry Structures on Expansive Soils. — Mark J. Masia, Robert E. Melchers, and Peter W. Kleeman; 128(11), 1454-61 (2002).

Knox, Hugh S. G.
Discussion of "Aerodynamic Stability of Long-Span Suspension Bridges under Erection" by Y. J. Ge and H. Tanaka. — Hugh S. G. Knox; 128(6), 837 (2002).

Kocer, Fatma Y.
Optimal Design of Latticed Towers Subjected to Earthquake Loading. — Fatma Y. Kocer and Jasbir S. Arora; 128(2), 197-204 (2002).

Kodur, V. K. R.
Closure to "Research Toward Use of Unprotected Steel Structures" by Y. C. Wang and V. K. R. Kodur. — Y. C. Wang and V. K. R. Kodur; 128(5), 687 (2002).

Kollár, László P.
Discussion of "Local Buckling of Composite FRP Shapes by Discrete Plate Analysis" by Pizhong Qiao, Julio F. Davalos, and Jialai Wang. — László P. Kollár; 128(8), 1091-3 (2002).
Buckling of Unidirectionally Loaded Composite Plates with One Free and One Rotationally Restrained Unloaded Edge. — László P. Kollár; 128(9), 1202-11 (2002).

Kolsch, Holger
Arching in Masonry Walls Subjected to Earthquake Motions. — Athanasios Dafnis, Holger Kolsch, and Hans-Günter Reimerdes; 128(2), 153-9 (2002).

Kuenzli, Christopher M.
Pushover of Hybrid Coupled Walls. I: Design and Modeling. — Sherif El-Tawil, Christopher M. Kuenzli, and Mohammad Hassan; 128(10), 1272-81 (2002).
Pushover of Hybrid Coupled Walls. II: Analysis and Behavior. — Sherif El-Tawil and Christopher M. Kuenzli; 128(10), 1282-9 (2002).

Kunnath, Sashi K.
Editor's Note. — Sashi K. Kunnath; 128(2), 137-9 (2002).
Editor's Note. — Sashi K. Kunnath; 128(4), 413-4 (2002).
Advances in Seismic Design and Evaluation of Steel Moment Frames: Recent Findings from FEMA/SAC Phase II Project. — Sashi K. Kunnath and James O. Malley; 128(4), 415-9 (2002).

Kurama, Yahya C.
Nonlinear Behavior of Posttensioned Hybrid Coupled Wall Subassemblages. — Qiang Shen and Yahya C. Kurama; 128(10), 1290-300 (2002).

Kwon, Y. D.
Formula for Stiffness of Bolted-Joint Members with Sleeve and Its Applications. — Y. D. Kwon, Nam Seo Goo, T. H. Yun, and J. K. Park; 128(7), 951-5 (2002).

LaBoube, R. A.
Behavior of Screw Connections in Residential Construction. — R. A. LaBoube and M. A. Sokol; 128(1), 115-8 (2002).

Lakshmi, B.
Nonlinear Analysis of In-Filled Steel-Concrete Composite Columns. — B. Lakshmi and N. E. Shanmugam; 128(7), 922-33 (2002).

Lam, L.
Strength Models for Fiber-Reinforced Plastic-Confined Concrete. — L. Lam and J. G. Teng; 128(5), 612-23 (2002).
Compressive Behavior of Carbon Fiber Reinforced Polymer-Confined Concrete in Elliptical Columns. — J. G. Teng and L. Lam; 128(12), 1535-43 (2002).

Lechner, James A.
Discussion of "Classical Extreme Value Model and Prediction of Extreme Winds," by Janos Galambos and Nicholas Macri. — Emil Simiu and James A. Lechner; 128(2), 271-2 (2002).

Lee, Chen
Void-Filled Cold-Formed Rectangular Hollow Section Braces Subjected to Large Deformation Cyclic Axial Loading. — Xiao-Ling Zhao, Raphael Grzebieta, and Chen Lee; 128(6), 746-53 (2002).

Lee, Cheol-Ho
Seismic Design of Rib-Reinforced Steel Moment Connections based on Equivalent Strut Model. — Cheol-Ho Lee; 128(9), 1121-9 (2002).

Lee, Hung-Jen
Strength Prediction for Discontinuity Regions by Softened Strut-and-Tie Model. — Shyh-Jiann Hwang and Hung-Jen Lee; 128(12), 1519-26 (2002).

Lee, Kĭhak
Seismic Performance Evaluation of Pre-Northridge Steel Frame Buildings with Brittle Connections. — Kĭhak Lee and Douglas A. Foutch; 128(4), 546-55 (2002).

Lee, Marcus M. K.
Assessment of Strength Equations for Overlapped Tubular *K*-Joints. — Fabio Gazzola and Marcus M. K. Lee; 128(1), 119-24 (2002).

Lee, Sung C.
Behavior of Intermediate Transverse Stiffeners Attached on Web Panels. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(3), 337-45 (2002).
Analysis of Shear Lag Anomaly in Box Girders. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(11), 1379-86 (2002).

Leelataviwat, Sutat
Energy-based Seismic Design of Structures using Yield Mechanism and Target Drift. — Sutat Leelataviwat, Subhash C. Goel, and Božidar Stojadinović; 128(8), 1046-54 (2002).

Léger, Pierre
Seismic Behavior of Post-Tensioned Gravity Dams: Shake Table Experiments and Numerical Simulations. — Philippe B. Morin, Pierre Léger, and René Tinawi; 128(2), 140-52 (2002).

Leichti, Robert
T-Bracing for Stability of Compression Webs in Wood Trusses. — Robert Leichti, Isabelle Hofacker, Ping Cheng, and Thomas McLain; 128(3), 374-81 (2002).

Li, Chunxiang
Further Characteristics for Multiple Tuned Mass Dampers. — Chunxiang Li and Yanxia Liu; 128(10), 1362-5 (2002).

Li, Jing
Dynamic Vehicle Element Method for Transient Response of Coupled Vehicle-Structure Systems. — Tso-Chien Pan and Jing Li; 128(2), 214-23 (2002).

Li, Q. S.
Finite Segment Method for Shear Lag Analysis of Cable-Stayed Bridges. — Q. Z. Luo, J. Tang, and Q. S. Li; 128(12), 1617-22 (2002).

Li, Quanwang
Shear Strength of Reinforced Concrete Columns Strengthened with Carbon-Fiber-Reinforced Plastic Sheet. — Lieping Ye, Qingrui Yue, Shuhong Zhao, and Quanwang Li; 128(12), 1527-34 (2002).

Liang, Qing Quan
Performance-Based Optimization for Strut-Tie Modeling of Structural Concrete. — Qing Quan Liang, Brian Uy, and Grant P. Steven; 128(6), 815-23 (2002).

Liang, Shuguo
Discussion of "Plastic-Zone Analysis of 3D Steel Frames Using Beam Elements" by Lip H. Teh and Murray J. Clarke. — Yuanjie Xu and Shuguo Liang; 128(9), 1236-7 (2002).

Liew, J. Y. Richard
Advanced Analysis for Performance-based Design of Steel Structures Exposed to Fires. — J. Y. Richard Liew, L. K. Tang, and Y. S. Choo; 128(12), 1584-93 (2002).

Limkatanyu, Suchart
Reinforced Concrete Frame Element with Bond Interfaces. I: Displacement-Based, Force-Based, and Mixed Formulations. — Suchart Limkatanyu and Enrico Spacone; 128(3), 346-55 (2002).
Reinforced Concrete Frame Element with Bond Interfaces. II: State Determinations and Numerical Validation. — Suchart Limkatanyu and Enrico Spacone; 128(3), 356-64 (2002).

Liu, Dawei
Lateral Instability and Lateral Bracing of Steel Beams Subjected to Cyclic Loading. — Masayoshi Nakashima, Iori Kanao, and Dawei Liu; 128(10), 1308-16 (2002).

Liu, G.-Y.
Axial Load Behavior of Stiffened Concrete-Filled Steel Columns. — C. S. Huang, Y.-K. Yeh, G.-Y. Liu, H.-T. Hu, K. C. Tsai, Y. T. Weng, S. H. Wang, and M.-H. Wu; 128(9), 1222-30 (2002).

Liu, Min
Fully Stressed Design of Frame Structures and Multiple Load Paths. — Keith M. Mueller, Min Liu, and Scott A. Burns; 128(6), 806-14 (2002).

Liu, Yanxia
Further Characteristics for Multiple Tuned Mass Dampers. — Chunxiang Li and Yanxia Liu; 128(10), 1362-5 (2002).

Lu, L. W.
Experimental Evaluation of Earthquake Resistant Posttensioned Steel Connections. — J. M. Ricles, R. Sause, S. W. Peng, and L. W. Lu; 128(7), 850-9 (2002).

Lu, Le-Wu
Behavior and Strength of Partially Encased Composite Columns with Built-up Shapes. — Thierry Chicoine, Robert Tremblay, Bruno Massicotte, James M. Ricles, and Le-Wu Lu; 128(3), 279-88 (2002).
Experimental Behavior of High Strength Square Concrete-Filled Steel Tube Beam-Columns. — Amit H. Varma, James M. Ricles, Richard Sause, and Le-Wu Lu; 128(3), 309-18 (2002).
Inelastic Cyclic Testing of Welded Unreinforced Moment Connections. — James M. Ricles, Changshi Mao, Le-Wu Lu, and John W. Fisher; 128(4), 429-40 (2002).
Database-Assisted Wind Load Capacity Estimates for Low-Rise Steel Frames. — Seokkwon Jang, Le-Wu Lu, Fahim Sadek, and Emil Simiu; 128(12), 1594-603 (2002).

Lu, Yong
Comparative Study of Seismic Behavior of Multistory Reinforced Concrete Framed Structures. — Yong Lu; 128(2), 169-78 (2002).
Distributed Structural Damage Generated by High-Frequency Ground Motion. — Guowei Ma, Hong Hao, Yong Lu, and Yingxin Zhou; 128(3), 390-9 (2002).

Luo, Q. Z.
Finite Segment Method for Shear Lag Analysis of Cable-Stayed Bridges. — Q. Z. Luo, J. Tang, and Q. S. Li; 128(12), 1617-22 (2002).

Ma, Guowei
Distributed Structural Damage Generated by High-Frequency Ground Motion. — Guowei Ma, Hong Hao, Yong Lu, and Yingxin Zhou; 128(3), 390-9 (2002).

Macri, Nicholas
Closure to "Classical Extreme Value Model and Prediction of Extreme Winds" by Janos Galambos and Nicholas Macri. — Janos Galambos and Nicholas Macri; 128(2), 273-5 (2002).

Madden, Glenn J.
Experimental Verification of Seismic Response of Building Frame with Adaptive Sliding Base-Isolation System. — Glenn J. Madden, Michael D. Symans, and Nat Wongprasert; 128(8), 1037-45 (2002).

Maekawa, Koichi
Failure Analysis of Reinforced Concrete Shell Structures using Layered Shell Element with Pressure Node. — Ha-Wong Song, Sang-Hyo Shim, Keun-Joo Byun, and Koichi Maekawa; 128(5), 655-64 (2002).
Modeling for Postyield Buckling of Reinforcement. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(9), 1139-47 (2002).
Reinforcement Stability and Fracture of Cover Concrete in Reinforced Concrete Members. — Rajesh Prasad Dhakal and Koichi Maekawa; 128(10), 1253-62 (2002).

Mahaarachchi, D.
Cyclic Pull-Out Strength of Screwed Connections in Steel Roof and Wall Cladding Systems using Thin Steel Battens. — M. Mahendran and D. Mahaarachchi; 128(6), 771-8 (2002).

Mahendran, M.
Cyclic Pull-Out Strength of Screwed Connections in Steel Roof and Wall Cladding Systems using Thin Steel Battens. — M. Mahendran and D. Mahaarachchi; 128(6), 771-8 (2002).

Maji, Arup
Review of *Deployable structures: Analysis and design* by C. J. Gantes. — Arup Maji; 128(7), 962 (2002).

Malik, Adnan R.
Evaluation of Efficiency Factor Models used in Strut-and-Tie Modeling of Nonflexural Members. — Stephen J. Foster and Adnan R. Malik; 128(5), 569-77 (2002).

Malley, James O.
Advances in Seismic Design and Evaluation of Steel Moment Frames: Recent Findings from FEMA/SAC Phase II Project. — Sashi K. Kunnath and James O. Malley; 128(4), 415-9 (2002).

Mao, Changshi
Inelastic Cyclic Testing of Welded Unreinforced Moment Connections. — James M. Ricles, Changshi Mao, Le-Wu Lu, and John W. Fisher; 128(4), 429-40 (2002).

Maranian, Peter
Cyclic Testing of Moment Connections Upgraded with Weld Overlays. — James C. Anderson, Jean Duan, Yan Xiao, and Peter Maranian; 128(4), 509-16 (2002).

Marini, Alessandra
Stud Shear Connection Design for Composite Concrete Slab and Wood Beams. — Piero Gelfi, Ezio Giuriani, and Alessandra Marini; 128(12), 1544-50 (2002).

Mashiri, Fidelis Rutendo
Fatigue Tests and Design of Thin Cold-Formed Square Hollow Section-to-Plate *T* Connections Under Cyclic In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao Ling Zhao, and Paul Grundy; 128(1), 22-31 (2002).
Fatigue Tests and Design of Welded T Connections in Thin Cold-Formed Square Hollow Sections Under In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao-Ling Zhao, and Paul Grundy; 128(11), 1413-22 (2002).

Masia, Mark J.
Probabilistic Crack Prediction for Masonry Structures on Expansive Soils. — Mark J. Masia, Robert E. Melchers, and Peter W. Kleeman; 128(11), 1454-61 (2002).

Massicotte, Bruno
Behavior and Strength of Partially Encased Composite Columns with Built-up Shapes. — Thierry Chicoine, Robert Tremblay, Bruno Massicotte, James M. Ricles, and Le-Wu Lu; 128(3), 279-88 (2002).

Matteazzi, Renato
Analyses of Masonry Vaults: A Macro Approach based on Three-Dimensional Damage Model. — Giuseppe Creazza, Renato Matteazzi, Anna Saetta, and Renato Vitaliani; 128(5), 646-54 (2002).

Mayes, Ronald L.
Effect of Vertical Motions on Seismic Response of Highway Bridges. — Martin R. Button, Colman J. Cronin, and Ronald L. Mayes; 128(12), 1551-64 (2002).

Mazars, Jacky
Error Indicator to Assess Quality of Finite-Element Frame Analyses. — Shahrokh Ghavamian, Gilles Pijaudier-Cabot, and Jacky Mazars; 128(1), 129-32 (2002).

McGuire, William
Modified Tangent Modulus Approach, A Contribution to Plastic Hinge Analysis. — Ronald D. Ziemian and William McGuire; 128(10), 1301-7 (2002).

McLain, Thomas
T-Bracing for Stability of Compression Webs in Wood Trusses. — Robert Leichti, Isabelle Hofacker, Ping Cheng, and Thomas McLain; 128(3), 374-81 (2002).

Melchers, Robert E.
Probabilistic Crack Prediction for Masonry Structures on Expansive Soils. — Mark J. Masia, Robert E. Melchers, and Peter W. Kleeman; 128(11), 1454-61 (2002).

Mimura, Hiroaki
Streamline Geometry Optimization in Beam-Column Connection. — Wu·bo Qi and Hiroaki Mimura; 128(6), 829-32 (2002).

Miranda, Eduardo
Approximate Lateral Drift Demands in Multistory Buildings with Nonuniform Stiffness. — Eduardo Miranda and Carlos J. Reyes; 128(7), 840-9 (2002).

Mirmiran, Amir
Stability Tests of Sandwich Composite Elastica Arches. — Amde M. Amde, Amir Mirmiran, and David Nelsen; 128(5), 683-6 (2002).
Special Structures: Past, Present, and Future. — Richard Bradshaw, David Campbell, Mousa Gargari, Amir Mirmiran, and Patrick Tripeny; 128(6), 691-709 (2002).

Mo, Y. L.
Seismic Performance of Rectangular Hollow Bridge Columns. — Y.-K. Yeh, Y. L. Mo, and C. Y. Yang; 128(1), 60-8 (2002).

Mohammadi, R. Karami
Approximate Evaluation of Deflection Amplification Factor. — R. Karami Mohammadi; 128(2), 179-87 (2002).

Moon, F. L., II
Shear Stud Connections for the Development of Composite Action between Steel Girders and Fiber-Reinforced Polymer Bridge Decks. — F. L. Moon, II, D. A. Eckel, II, and J. W. Gillespie, Jr.; 128(6), 762-70 (2002).

Morin, Philippe B.
Seismic Behavior of Post-Tensioned Gravity Dams: Shake Table Experiments and Numerical Simulations. — Philippe B. Morin, Pierre Léger, and René Tinawi; 128(2), 140-52 (2002).

Mosalam, Khalid M.
Seismic Evaluation of Gravity-Load-Designed Column-Grid System. — Khalid M. Mosalam and Clay J. Naito; 128(2), 160-8 (2002).

Mueller, Keith M.
Fully Stressed Design of Frame Structures and Multiple Load Paths. — Keith M. Mueller, Min Liu, and Scott A. Burns; 128(6), 806-14 (2002).

Murnal, Pranesh
Earthquake Resistant Design of Structures using the Variable Frequency Pendulum Isolator. — Pranesh Murnal and Ravi Sinha; 128(7), 870-80 (2002).

Murray, Thomas M.
Behavior of Extended End-Plate Moment Connections Subject to Cyclic Loading. — Emmett A. Sumner and Thomas M. Murray; 128(4), 501-8 (2002).

Muthukumar, Susendar
Effect of Pounding and Restrainers on Seismic Response of Multiple-Frame Bridges. — Reginald DesRoches and Susendar Muthukumar; 128(7), 860-9 (2002).

Nagarajaiah, Satish
Stability of Elastomeric Isolation Bearings: Experimental Study. — Ian Buckle, Satish Nagarajaiah, and Keith Ferrell; 128(1), 3-11 (2002).

Naito, Clay J.
Seismic Evaluation of Gravity-Load-Designed Column-Grid System. — Khalid M. Mosalam and Clay J. Naito; 128(2), 160-8 (2002).

Nakamura, Shun-ichi
Bending Behavior of Composite Girders with Cold Formed Steel U Section. — Shun-ichi Nakamura; 128(9), 1169-76 (2002).

Nakashima, Masayoshi
Lateral Instability and Lateral Bracing of Steel Beams Subjected to Cyclic Loading. — Masayoshi Nakashima, Iori Kanao, and Dawei Liu; 128(10), 1308-16 (2002).

Neetha, R.
Methodology to Evaluate First Transition Foundation Stiffness for Columns on Winkler Foundation. — G. Venkateswara Rao and R. Neetha; 128(7), 956-9 (2002).

Nelsen, David
Stability Tests of Sandwich Composite Elastica Arches. — Amde M. Amde, Amir Mirmiran, and David Nelsen; 128(5), 683-6 (2002).

Newhook, John
Cracking and Deformability of Concrete Flexural Sections with Fiber Reinforced Polymer. — John Newhook, Amin Ghali, and Gamil Tadros; 128(9), 1195-201 (2002).

Obata, Makoto
Hysteretic Modeling of Thin-Walled Circular Steel Columns under Biaxial Bending. — Lizhi Jiang, Yoshiaki Goto, and Makoto Obata; 128(3), 319-27 (2002).

Ono, Tetsuro
Second-Order Third-Moment Reliability Method. — Yan-Gang Zhao, Tetsuro Ono, and Masahiro Kato; 128(8), 1087-90 (2002).

Orbison, James G.
Net Section Rupture in Tension Members with Connection Eccentricity. — James G. Orbison, Karl E. Barth, and Peter A. Bartels; 128(8), 976-85 (2002).

O'Rourke, Michael
Snow Drifts at Windward Roof Steps. — Michael O'Rourke and Charles De Angelis; 128(10), 1330-6 (2002).

O'Shea, Martin D.
Closure to "Design of Circular Thin-Walled Concrete Filled Steel Tubes" by Martin D. O'Shea, M.ASCE and Russel Q. Bridge, F.ASCE. — Martin D. O'Shea and Russell Q. Bridge; 128(1), 134-5 (2002).

Pacheco, Pedro Alvares Ribeiro do Carmo
Organic Prestressing. — Pedro Alvares Ribeiro do Carmo Pacheco and António Manuel Adão da Fonseca; 128(3), 400-5 (2002).

Packer, J. A.
Experimental Study of Bolted HSS Flange-Plate Connections in Axial Tension. — S. Willibald, J. A. Packer, and R. S. Puthli; 128(3), 328-36 (2002).

Pan, Tso-Chien
Dynamic Vehicle Element Method for Transient Response of Coupled Vehicle-Structure Systems. — Tso-Chien Pan and Jing Li; 128(2), 214-23 (2002).

Pantelides, Chris P.
Review of *Information-gap decision theory: Decisions under severe uncertainty* by Yakov Ben-Haim. — Chris P. Pantelides; 128(5), 688 (2002).

Park, J. K.
Formula for Stiffness of Bolted-Joint Members with Sleeve and Its Applications. — Y. D. Kwon, Nam Seo Goo, T. H. Yun, and J. K. Park; 128(7), 951-5 (2002).

Patev, Robert
Reliability Assessment of Pile Groups in Sands. — Khaled H. Eloseily, Bilal M. Ayyub, and Robert Patev; 128(10), 1346-53 (2002).

Penelis, Gregory G.
Evaluation of Simplified Models for Lateral Load Analysis of Unreinforced Masonry Buildings. — Andreas J. Kappos, Gregory G. Penelis, and Christos G. Drakopoulos; 128(7), 890-7 (2002).

Peng, S. W.
Experimental Evaluation of Earthquake Resistant Posttensioned Steel Connections. — J. M. Ricles, R. Sause, S. W. Peng, and L. W. Lu; 128(7), 850-9 (2002).

Pi, Yong-Lin
Elastic Flexural-Torsional Buckling of Discretely Restrained Arches. — Mark Andrew Bradford and Yong-Lin Pi; 128(6), 719-27 (2002).

Pijaudier-Cabot, Gilles
Error Indicator to Assess Quality of Finite-Element Frame Analyses. — Shahrokh Ghavamian, Gilles Pijaudier-Cabot, and Jacky Mazars; 128(1), 129-32 (2002).

Polak, M. A.
Effect of Surface Cracks on Rayleigh Wave Propagation: An Experimental Study. — A. Zerwer, M. A. Polak, and J. C. Santamarina; 128(2), 240-8 (2002).

Puthli, R. S.
Experimental Study of Bolted HSS Flange-Plate Connections in Axial Tension. — S. Willibald, J. A. Packer, and R. S. Puthli; 128(3), 328-36 (2002).

Qi, Wu-bo
Streamline Geometry Optimization in Beam-Column Connection. — Wu-bo Qi and Hiroaki Mimura; 128(6), 829-32 (2002).

Qiao, Pizhong
Closure to "Local Buckling of Composite FRP Shapes by Discrete Plate Analysis" by Pizhong Qiao, Julio F. Davalos, and Jialai Wang. — Pizhong Qiao, Julio F. Davalos, and Jialai Wang; 128(8), 1093 (2002).

Rahal, Khaldoun N.
Membrane Elements Subjected to In-Plane Shearing and Normal Stresses. — Khaldoun N. Rahal; 128(8), 1064-72 (2002).

Rajasekaran, Sundaramoorthy
Discussion of "Prediction of Ultimate Shear Strength of Reinforced-Concrete Deep Beams Using Neural Networks" by A. Sanad and M. P. Saka. — Sundaramoorthy Rajasekaran and R. Amalraj; 128(12), 1623-4 (2002).

Reddy, J. N.
Improved Computation of Stress Resultants in the *p*-Ritz Method. — C. M. Wang, Y. C. Wang, J. N. Reddy, and V. Thevendran; 128(2), 249-57 (2002).

Reimerdes, Hans-Günter
Arching in Masonry Walls Subjected to Earthquake Motions. — Athanasios Dafnis, Holger Kolsch, and Hans-Günter Reimerdes; 128(2), 153-9 (2002).

Reinhorn, Andrei M.
Collapse Analysis: Large Inelastic Deformations Analysis of Planar Frames. — Mettupalayam V. Sivaselvan and Andrei M. Reinhorn; 128(12), 1575-83 (2002).

Ren, Wei-Xin
Structural Damage Identification using Modal Data. I: Simulation Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 87-95 (2002).
Structural Damage Identification using Modal Data. II: Test Verification. — Wei-Xin Ren and Guido De Roeck; 128(1), 96-104 (2002).

Reutlinger, Chris G.
Transfer and Development Length of 15-mm Strand in High Performance Concrete Girders. — Lawrence F. Kahn, Jason C. Dill, and Chris G. Reutlinger; 128(7), 913-21 (2002).

Reyes, Carlos J.
Approximate Lateral Drift Demands in Multistory Buildings with Nonuniform Stiffness. — Eduardo Miranda and Carlos J. Reyes; 128(7), 840-9 (2002).

Ricles, J. M.
Experimental Evaluation of Earthquake Resistant Posttensioned Steel Connections. — J. M. Ricles, R. Sause, S. W. Peng, and L. W. Lu; 128(7), 850-9 (2002).

Ricles, James M.
Behavior and Strength of Partially Encased Composite Columns with Built-up Shapes. — Thierry Chicoine, Robert Tremblay, Bruno Massicotte, James M. Ricles, and Le-Wu Lu; 128(3), 279-88 (2002).
Experimental Behavior of High Strength Square Concrete-Filled Steel Tube Beam-Columns. — Amit H. Varma, James M. Ricles, Richard Sause, and Le-Wu Lu; 128(3), 309-18 (2002).
Inelastic Cyclic Testing of Welded Unreinforced Moment Connections. — James M. Ricles, Changshi Mao, Le-Wu Lu, and John W. Fisher; 128(4), 429-40 (2002).

Roeder, Charles W.
General Issues Influencing Connection Performance. — Charles W. Roeder; 128(4), 420-8 (2002).
Connection Performance for Seismic Design of Steel Moment Frames. — Charles W. Roeder; 128(4), 517-25 (2002).

Roësset, Jose M.
State of the Art of Structural Engineering. — Jose M. Roësset and James T. P. Yao; 128(8), 965-75 (2002).

Roschke, Paul N.
Wind Sensitivity of Recycled Plastic Soundwalls. — Steven T. Esche and Paul N. Roschke; 128(11), 1462-9 (2002).

Rosowsky, David V.
Performance-Based Engineering of Wood Frame Housing: Fragility Analysis Methodology. — David V. Rosowsky and Bruce R. Ellingwood; 128(1), 32-8 (2002).
Structural Reliability of Multistory Buildings during Construction. — Deepthi C. Epaarachchi, Mark G. Stewart, and David V. Rosowsky; 128(2), 205-13 (2002).
Another Look at Load Duration Effects in Wood. — David V. Rosowsky and William M. Bulleit; 128(6), 824-8 (2002).
Reliability-based Seismic Design of Wood Shear Walls. — David V. Rosowsky; 128(11), 1439-53 (2002).

Ross, Timothy J.
Review of *Dynamics of structures: Theory and applications to earthquake engineering* by Anil S. Chopra. — Timothy J. Ross; 128(6), 838 (2002).

Saafan, Mohamed S.
Discussion of "Response Prediction of Geometrically Nonlinear Structures" by Kiyohiro Imai and Dan M. Frangopol. — Mohamed S. Saafan; 128(7), 960 (2002).

Sadek, Fahim
Database-Assisted Wind Load Capacity Estimates for Low-Rise Steel Frames. — Seokkwon Jang, Le-Wu Lu, Fahim Sadek, and Emil Simiu; 128(12), 1594-603 (2002).

Saetta, Anna
Analyses of Masonry Vaults: A Macro Approach based on Three-Dimensional Damage Model. — Giuseppe Creazza, Renato Matteazzi, Anna Saetta, and Renato Vitaliani; 128(5), 646-54 (2002).

Saka, M. P.
Closure to "Prediction of Ultimate Shear Strength of Reinforced-Concrete Deep Beams Using Neural Networks" by A. Sanad and M. P. Saka. — A. Sanad and M. P. Saka; 128(12), 1624 (2002).

Sanad, A.
Closure to "Prediction of Ultimate Shear Strength of Reinforced-Concrete Deep Beams Using Neural Networks" by A. Sanad and M. P. Saka. — A. Sanad and M. P. Saka; 128(12), 1624 (2002).

Santamarina, J. C.
Effect of Surface Cracks on Rayleigh Wave Propagation: An Experimental Study. — A. Zerwer, M. A. Polak, and J. C. Santamarina; 128(2), 240-8 (2002).

Sato, Yuichi
Local Stresses and Crack Displacements in Reinforced Concrete Elements. — Yuichi Sato and Shigeru Fujii; 128(10), 1263-71 (2002).

Sause, R.
Experimental Evaluation of Earthquake Resistant Posttensioned Steel Connections. — J. M. Ricles, R. Sause, S. W. Peng, and L. W. Lu; 128(7), 850-9 (2002).

Sause, Richard
Experimental Behavior of High Strength Square Concrete-Filled Steel Tube Beam-Columns. — Amit H. Varma, James M. Ricles, Richard Sause, and Le-Wu Lu; 128(3), 309-18 (2002).

Schafer, B. W.
Local, Distortional, and Euler Buckling of Thin-Walled Columns. — B. W. Schafer; 128(3), 289-99 (2002).
Three Books for Cold-Formed Steel Design. — B. W. Schafer; 128(11), 1490 (2002).

Schneider, Stephen P.
Inelastic Behavior of Bolted Flange Plate Connections. — Stephen P. Schneider and Itthinun Teeraparbwong; 128(4), 492-500 (2002).

Sebastian, Wendel M.
Sensitivities of Strength and Ductility of Plated Reinforced Concrete Sections to Preexisting Strains. — Wendel M. Sebastian; 128(5), 624-36 (2002).
Prediction of Interface Shear Stresses in Elastoplastic Moment-Varying Zones of Advanced Composite Material-Strengthened Concrete Members. — Wendel M. Sebastian; 128(9), 1212-21 (2002).

Serrette, R. L.
Web Crippling Behavior of Floor Joist/Rim Members in Built Assemblies. — R. L. Serrette; 128(9), 1177-85 (2002).

Shanmugam, N. E.
Nonlinear Analysis of In-Filled Steel-Concrete Composite Columns. — B. Lakshmi and N. E. Shanmugam; 128(7), 922-33 (2002).
Finite-Element Analysis of Steel–Concrete Composite Plate Girder. — K. Baskar, N. E. Shanmugam, and V. Thevendran; 128(9), 1158-68 (2002).

Sheikh, A. H.
New Concept to Include Shear Deformation in a Curved Beam Element. — A. H. Sheikh; 128(3), 406-10 (2002).

Shen, Qiang
Nonlinear Behavior of Posttensioned Hybrid Coupled Wall Subassemblages. — Qiang Shen and Yahya C. Kurama; 128(10), 1290-300 (2002).

Shi, Xudong
Effect of Force-Temperature Paths on Behaviors of Reinforced Concrete Flexural Members. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(3), 365-73 (2002).
Concrete Constitutive Relationships Under Different Stress-Temperature Paths. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(12), 1511-8 (2002).

Shim, Sang-Hyo
Failure Analysis of Reinforced Concrete Shell Structures using Layered Shell Element with Pressure Node. — Ha-Wong Song, Sang-Hyo Shim, Keun-Joo Byun, and Koichi Maekawa; 128(5), 655-64 (2002).

Shin, Soobong
Experimental Investigation of System-Identification-Based Damage Assessment on Structures. — Jeong-Hwan Jang, Inho Yeo, Soobong Shin, and Sung-Pil Chang; 128(5), 673-82 (2002).

Silva, Marcelo A.
Optimization of Elevated Concrete Foundations for Vibrating Machines. — Marcelo A. Silva, Jasbir S. Arora, Colby C. Swan, and Reyolando M. L. R. F. Brasil; 128(11), 1470-9 (2002).

Simiu, Emil
Discussion of "Classical Extreme Value Model and Prediction of Extreme Winds," by Janos Galambos and Nicholas Macri. — Emil Simiu and James A. Lechner; 128(2), 271-2 (2002).
Database-Assisted Wind Load Capacity Estimates for Low-Rise Steel Frames. — Seokkwon Jang, Le-Wu Lu, Fahim Sadek, and Emil Simiu; 128(12), 1594-603 (2002).

Sinha, Ravi
Earthquake Resistant Design of Structures using the Variable Frequency Pendulum Isolator. — Pranesh Murnal and Ravi Sinha; 128(7), 870-80 (2002).

Sivaselvan, Mettupalayam V.
Collapse Analysis: Large Inelastic Deformations Analysis of Planar Frames. — Mettupalayam V. Sivaselvan and Andrei M. Reinhorn; 128(12), 1575-83 (2002).

Smith, H. Allison
Performance Evaluation of Controlled Steel Frames under Multilevel Seismic Loads. — Luciana R. Barroso, Scott E. Breneman, and H. Allison Smith; 128(11), 1368-78 (2002).

Smith, Ian
Load and Resistance Factor Design of Timber Joints: International Practice and Future Direction. — Ian Smith and Greg Foliente; 128(1), 48-59 (2002).

Soh, C. K.
Stress Concentration Factors of Doubler Plate Reinforced Tubular T Joints. — T. C. Fung, C. K. Soh, T. K. Chan, and Erni; 128(11), 1399-412 (2002).

Sokol, M. A.
Behavior of Screw Connections in Residential Construction. — R. A. LaBoube and M. A. Sokol; 128(1), 115-8 (2002).

Song, Ha-Wong
Failure Analysis of Reinforced Concrete Shell Structures using Layered Shell Element with Pressure Node. — Ha-Wong Song, Sang-Hyo Shim, Keun-Joo Byun, and Koichi Maekawa; 128(5), 655-64 (2002).

Spacone, Enrico
Reinforced Concrete Frame Element with Bond Interfaces. I: Displacement-Based, Force-Based, and Mixed Formulations. — Suchart Limkatanyu and Enrico Spacone; 128(3), 346-55 (2002).
Reinforced Concrete Frame Element with Bond Interfaces. II: State Determinations and Numerical Validation. — Suchart Limkatanyu and Enrico Spacone; 128(3), 356-64 (2002).

Srinivasan, C. N.
Discussion of "Design of Circular Thin-Walled Concrete Filled Steel Tubes," by Martin D. O'Shea, M.ASCE and Russel Q. Bridge, F.ASCE. — C. N. Srinivasan; 128(1), 133-4 (2002).
Discussion of "Research Toward Use of Unprotected Steel Structures" by Y. C. Wang and V. K. R. Kodur. — C. N. Srinivasan; 128(5), 687 (2002).

Stavridis, L. T.
Simplified Analysis of Layered Soil-Structure Interaction. — L. T. Stavridis; 128(2), 224-30 (2002).

Stehn, Lars
Ductility Aspects in Nailed Glue Laminated Timber Connection Design. — Lars Stehn and Helena Johansson; 128(3), 382-9 (2002).

Steven, Grant P.
Performance-Based Optimization for Strut-Tie Modeling of Structural Concrete. — Qing Quan Liang, Brian Uy, and Grant P. Steven; 128(6), 815-23 (2002).

Stewart, Mark G.
Structural Reliability of Multistory Buildings during Construction. — Deepthi C. Epaarachchi, Mark G. Stewart, and David V. Rosowsky; 128(2), 205-13 (2002).
Safety Factors for Assessment of Existing Structures. — Dimitri V. Val and Mark G. Stewart; 128(2), 258-65 (2002).

Stojadinović, Božidar
Energy-based Seismic Design of Structures using Yield Mechanism and Target Drift. — Sutat Leelataviwat, Subhash C. Goel, and Božidar Stojadinović; 128(8), 1046-54 (2002).

Subcommitee on Composite Steel and Concrete Floor Systems
Construction Considerations for Composite Steel-and-Concrete Floor Systems. — Subcommitee on Composite Steel and Concrete Floor Systems; 128(9), 1099-110 (2002).

Sumner, Emmett A.
Behavior of Extended End-Plate Moment Connections Subject to Cyclic Loading. — Emmett A. Sumner and Thomas M. Murray; 128(4), 501-8 (2002).

Sun, R. B.
Analytical Method for Calculation of Deformations and Stresses of Wall Plates of Dry Gas Holders Under Pressure. — L. H. You, J. J. Zhang, H. B. Wu, and R. B. Sun; 128(1), 125-8 (2002).

Sun, Z.
Structural Damage Assessment Based on Wavelet Packet Transform. — Z. Sun and C. C. Chang; 128(10), 1354-61 (2002).

Swan, Colby C.
Optimization of Elevated Concrete Foundations for Vibrating Machines. — Marcelo A. Silva, Jasbir S. Arora, Colby C. Swan, and Reyolando M. L. R. F. Brasil; 128(11), 1470-9 (2002).

Sweeney, Steve
Behavior of Masonry-Infilled Nonductile Reinforced Concrete Frames. — Ghassan Al-Chaar, Mohsen Issa, and Steve Sweeney; 128(8), 1055-63 (2002).

Symans, Michael D.
Experimental Verification of Seismic Response of Building Frame with Adaptive Sliding Base-Isolation System. — Glenn J. Madden, Michael D. Symans, and Nat Wongprasert; 128(8), 1037-45 (2002).

Tadros, Gamil
Cracking and Deformability of Concrete Flexural Sections with Fiber Reinforced Polymer. — John Newhook, Amin Ghali, and Gamil Tadros; 128(9), 1195-201 (2002).

Takewaki, Izuru
Seismic Critical Excitation Method for Robust Design: A Review. — Izuru Takewaki; 128(5), 665-72 (2002).
Errata for "Seismic Critical Excitation Method for Robust Design: A Review" by Izuru Takewaki. — Izuru Takewaki; 128(9), 1240 (2002).
Robust Building Stiffness Design for Variable Critical Excitations. — Izuru Takewaki; 128(12), 1565-74 (2002).

Takhirov, S. M.
Cover-Plate and Flange-Plate Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 474-82 (2002).
Experimental Evaluation of Plate-Reinforced Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 483-91 (2002).

Tan, K. H.
Visco-Elasto-Plastic Analysis of Steel Frames in Fire. — K. H. Tan, S. K. Ting, and Z. F. Huang; 128(1), 105-14 (2002).

Tan, Kang-Hai
Effect of Force-Temperature Paths on Behaviors of Reinforced Concrete Flexural Members. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(3), 365-73 (2002).
Concrete Constitutive Relationships Under Different Stress-Temperature Paths. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(12), 1511-8 (2002).

Tan, Teng-Hooi
Effect of Force-Temperature Paths on Behaviors of Reinforced Concrete Flexural Members. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(3), 365-73 (2002).
Concrete Constitutive Relationships Under Different Stress-Temperature Paths. — Xudong Shi, Teng-Hooi Tan, Kang-Hai Tan, and Zhenhai Guo; 128(12), 1511-8 (2002).

Tang, J.
Finite Segment Method for Shear Lag Analysis of Cable-Stayed Bridges. — Q. Z. Luo, J. Tang, and Q. S. Li; 128(12), 1617-22 (2002).

Tang, L. K.
Advanced Analysis for Performance-based Design of Steel Structures Exposed to Fires. — J. Y. Richard Liew, L. K. Tang, and Y. S. Choo; 128(12), 1584-93 (2002).

Tariverdilo, Saeed
Localization Analysis of Reinforced Concrete Members with Softening Behavior. — Ali R. Khaloo and Saeed Tariverdilo; 128(9), 1148-57 (2002).

Teeraparbwong, Itthinun
Inelastic Behavior of Bolted Flange Plate Connections. — Stephen P. Schneider and Itthinun Teeraparbwong; 128(4), 492-500 (2002).

Teh, Lip H.
Closure to "Plastic-Zone Analysis of 3D Steel Frames Using Beam Elements" by Lip H. Teh and Murray J. Clarke. — Lip H. Teh and Murray J. Clarke; 128(9), 1237-9 (2002).

Teng, J. G.
Strength Models for Fiber-Reinforced Plastic-Confined Concrete. — L. Lam and J. G. Teng; 128(5), 612-23 (2002).
Compressive Behavior of Carbon Fiber Reinforced Polymer-Confined Concrete in Elliptical Columns. — J. G. Teng and L. Lam; 128(12), 1535-43 (2002).

Thevendran, V.
Improved Computation of Stress Resultants in the *p*-Ritz Method. — C. M. Wang, Y. C. Wang, J. N. Reddy, and V. Thevendran; 128(2), 249-57 (2002).
Finite-Element Analysis of Steel–Concrete Composite Plate Girder. — K. Baskar, N. E. Shanmugam, and V. Thevendran; 128(9), 1158-68 (2002).

Thomas, W. H.
Concentrated Load Capacity and Stiffness of Oriented Strand Board: Calculation versus Test. — W. H. Thomas; 128(7), 908-12 (2002).

Tinawi, René
Seismic Behavior of Post-Tensioned Gravity Dams: Shake Table Experiments and Numerical Simulations. — Philippe B. Morin, Pierre Léger, and René Tinawi; 128(2), 140-52 (2002).

Ting, S. K.
Visco-Elasto-Plastic Analysis of Steel Frames in Fire. — K. H. Tan, S. K. Ting, and Z. F. Huang; 128(1), 105-14 (2002).

Topkaya, Cem
Test Method for Determining the Shear Modulus of Elastomeric Bearings. — Cem Topkaya and Joseph A. Yura; 128(6), 797-805 (2002).

Trahair, N. S.
Moment Capacities of Steel Angle Sections. — N. S. Trahair; 128(11), 1387-93 (2002).
Bearing, Shear, and Torsion Capacities of Steel Angle Sections. — N. S. Trahair; 128(11), 1394-8 (2002).

Tremblay, Robert
Behavior and Strength of Partially Encased Composite Columns with Built-up Shapes. — Thierry Chicoine, Robert Tremblay, Bruno Massicotte, James M. Ricles, and Le-Wu Lu; 128(3), 279-88 (2002).

Tripeny, Patrick
Special Structures: Past, Present, and Future. — Richard Bradshaw, David Campbell, Mousa Gargari, Amir Mirmiran, and Patrick Tripeny; 128(6), 691-709 (2002).

Tsai, K. C.
Axial Load Behavior of Stiffened Concrete-Filled Steel Columns. — C. S. Huang, Y.-K. Yeh, G.-Y. Liu, H.-T. Hu, K. C. Tsai, Y. T. Weng, S. H. Wang, and M.-H. Wu; 128(9), 1222-30 (2002).

Uang, Chia-Ming
Cyclic Response and Design Recommendations of Weak-Axis Reduced Beam Section Moment Connections. — Chad S. Gilton and Chia-Ming Uang; 128(4), 452-63 (2002).
Cyclic Response and Design Recommendations of Reduced Beam Section Moment Connections with Deep Columns. — Brandon Chi and Chia-Ming Uang; 128(4), 464-73 (2002).
Posttensioned Energy Dissipating Connections for Moment-Resisting Steel Frames. — Constantin Christopoulos, Andre Filiatrault, Chia-Ming Uang, and Bryan Folz; 128(9), 1111-20 (2002).
Seismic Testing of Two-Story Woodframe House: Influence of Wall Finish Materials. — Andre Filiatrault, David Fischer, Bryan Folz, and Chia-Ming Uang; 128(10), 1337-45 (2002).

Usami, Tsutomu
New Elastic Stability Formulas for Multiple-Stiffened Shear Panels. — Praween Chusilp and Tsutomu Usami; 128(6), 833-6 (2002).
Strength and Ductility of Steel Box Girders under Cyclic Shear. — Praween Chusilp and Tsutomu Usami; 128(9), 1130-8 (2002).

Uy, Brian
Performance-Based Optimization for Strut-Tie Modeling of Structural Concrete. — Qing Quan Liang, Brian Uy, and Grant P. Steven; 128(6), 815-23 (2002).

Val, Dimitri V.
Safety Factors for Assessment of Existing Structures. — Dimitri V. Val and Mark G. Stewart; 128(2), 258-65 (2002).

Vallini, Paolo
Mechanical Model for Failure of Compressed Concrete in Reinforced Concrete Beams. — Alessandro P. Fantilli, Daniele Ferretti, Ivo Iori, and Paolo Vallini; 128(5), 637-45 (2002).

Varma, Amit H.
Experimental Behavior of High Strength Square Concrete-Filled Steel Tube Beam-Columns. — Amit H. Varma, James M. Ricles, Richard Sause, and Le-Wu Lu; 128(3), 309-18 (2002).

Vecchio, F. J.
Closure to "Disturbed Stress Field Model for Reinforced Concrete: Formulation" by F. J. Vecchio. — F. J. Vecchio; 128(11), 1488-9 (2002).

Venkateswara Rao, G.
Methodology to Evaluate First Transition Foundation Stiffness for Columns on Winkler Foundation. — G. Venkateswara Rao and R. Neetha; 128(7), 956-9 (2002).

Villaverde, Roberto
Aseismic Roof Isolation System: Feasibility Study with 13-Story Building. — Roberto Villaverde; 128(2), 188-96 (2002).

Vitaliani, Renato
Analyses of Masonry Vaults: A Macro Approach based on Three-Dimensional Damage Model. — Giuseppe Creazza, Renato Matteazzi, Anna Saetta, and Renato Vitaliani; 128(5), 646-54 (2002).

Wang, C. M.
Improved Computation of Stress Resultants in the *p*-Ritz Method. — C. M. Wang, Y. C. Wang, J. N. Reddy, and V. Thevendran; 128(2), 249-57 (2002).
Funicular Shapes for Submerged Arches. — C. M. Wang and C. Y. Wang; 128(2), 266-70 (2002).

Wang, C. Y.
Funicular Shapes for Submerged Arches. — C. M. Wang and C. Y. Wang; 128(2), 266-70 (2002).

Wang, Jialai
Closure to "Local Buckling of Composite FRP Shapes by Discrete Plate Analysis" by Pizhong Qiao, Julio F. Davalos, and Jialai Wang. — Pizhong Qiao, Julio F. Davalos, and Jialai Wang; 128(8), 1093 (2002).

Wang, S. H.
Axial Load Behavior of Stiffened Concrete-Filled Steel Columns. — C. S. Huang, Y.-K. Yeh, G.-Y. Liu, H.-T. Hu, K. C. Tsai, Y. T. Weng, S. H. Wang, and M.-H. Wu; 128(9), 1222-30 (2002).

Wang, W.
Appraisal of Reciprocal Load Method for Reinforced Concrete Columns of Normal and High Strength Concrete. — W. Wang and H. P. Hong; 128(11), 1480-6 (2002).

Wang, Y. C.
Improved Computation of Stress Resultants in the *p*-Ritz Method. — C. M. Wang, Y. C. Wang, J. N. Reddy, and V. Thevendran; 128(2), 249-57 (2002).
Closure to "Research Toward Use of Unprotected Steel Structures" by Y. C. Wang and V. K. R. Kodur. — Y. C. Wang and V. K. R. Kodur; 128(5), 687 (2002).

Weng, C. C.
Experimental Study on Shear Splitting Failure of Full-Scale Composite Concrete Encased Steel Beams. — C. C. Weng, S. I. Yen, and M. H. Jiang; 128(9), 1186-94 (2002).

Weng, Y. T.
Axial Load Behavior of Stiffened Concrete-Filled Steel Columns. — C. S. Huang, Y.-K. Yeh, G.-Y. Liu, H.-T. Hu, K. C. Tsai, Y. T. Weng, S. H. Wang, and M.-H. Wu; 128(9), 1222-30 (2002).

Whittaker, A. S.
Cover-Plate and Flange-Plate Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 474-82 (2002).
Experimental Evaluation of Plate-Reinforced Steel Moment-Resisting Connections. — T. Kim, A. S. Whittaker, A. S. J. Gilani, V. V. Bertero, and S. M. Takhirov; 128(4), 483-91 (2002).

Willibald, S.
Experimental Study of Bolted HSS Flange-Plate Connections in Axial Tension. — S. Willibald, J. A. Packer, and R. S. Puthli; 128(3), 328-36 (2002).

Wongprasert, Nat
Experimental Verification of Seismic Response of Building Frame with Adaptive Sliding Base-Isolation System. — Glenn J. Madden, Michael D. Symans, and Nat Wongprasert; 128(8), 1037-45 (2002).

Wu, H. B.
Analytical Method for Calculation of Deformations and Stresses of Wall Plates of Dry Gas Holders Under Pressure. — L. H. You, J. J. Zhang, H. B. Wu, and R. B. Sun; 128(1), 125-8 (2002).

Wu, Jia-Jang
Alternative Approach for Free Vibration of Beams Carrying A Number of Two-Degree of Freedom Spring-Mass Systems. — Jia-Jang Wu; 128(12), 1604-16 (2002).

Wu, M.-H.
Axial Load Behavior of Stiffened Concrete-Filled Steel Columns. — C. S. Huang, Y.-K. Yeh, G.-Y. Liu, H.-T. Hu, K. C. Tsai, Y. T. Weng, S. H. Wang, and M.-H. Wu; 128(9), 1222-30 (2002).

Xiao, Yan
Cyclic Testing of Moment Connections Upgraded with Weld Overlays. — James C. Anderson, Jean Duan, Yan Xiao, and Peter Maranian; 128(4), 509-16 (2002).

Xu, Yuanjie
Discussion of "Plastic-Zone Analysis of 3D Steel Frames Using Beam Elements" by Lip H. Teh and Murray J. Clarke. — Yuanjie Xu and Shuguo Liang; 128(9), 1236-7 (2002).

Yakut, Ahmet
Parameters Influencing Performance of Elastomeric Bearings at Low Temperatures. — Ahmet Yakut and Joseph A. Yura; 128(8), 986-94 (2002).
Evaluation of Elastomeric Bearing Performance at Low Temperatures. — Ahmet Yakut and Joseph A. Yura; 128(8), 995-1002 (2002).

Yan, Jintang
Channel Columns Undergoing Local, Distortional, and Overall Buckling. — Ben Young and Jintang Yan; 128(6), 728-36 (2002).
Column Tests of Cold-Formed Steel Channels with Complex Stiffeners. — Jintang Yan and Ben Young; 128(6), 737-45 (2002).

Yang, C. Y.
Seismic Performance of Rectangular Hollow Bridge Columns. — Y.-K. Yeh, Y. L. Mo, and C. Y. Yang; 128(1), 60-8 (2002).

Yang, Jun
Reliability Assessment of Highway Truss Sign Supports. — Jun Yang and John T. DeWolf; 128(11), 1429-38 (2002).

Yao, James T. P.
State of the Art of Structural Engineering. — Jose M. Roësset and James T. P. Yao; 128(8), 965-75 (2002).

Ye, Lieping
Shear Strength of Reinforced Concrete Columns Strengthened with Carbon-Fiber-Reinforced Plastic Sheet. — Lieping Ye, Qingrui Yue, Shuhong Zhao, and Quanwang Li; 128(12), 1527-34 (2002).

Yeh, Y.-K.
Seismic Performance of Rectangular Hollow Bridge Columns. — Y.-K. Yeh, Y. L. Mo, and C. Y. Yang; 128(1), 60-8 (2002).
Axial Load Behavior of Stiffened Concrete-Filled Steel Columns. — C. S. Huang, Y.-K. Yeh, G.-Y. Liu, H.-T. Hu, K. C. Tsai, Y. T. Weng, S. H. Wang, and M.-H. Wu; 128(9), 1222-30 (2002).

Yen, S. I.
Experimental Study on Shear Splitting Failure of Full-Scale Composite Concrete Encased Steel Beams. — C. C. Weng, S. I. Yen, and M. H. Jiang; 128(9), 1186-94 (2002).

Yeo, Inho
Experimental Investigation of System-Identification-Based Damage Assessment on Structures. — Jeong-Hwan Jang, Inho Yeo, Soobong Shin, and Sung-Pil Chang; 128(5), 673-82 (2002).

Yoo, Chai H.
Behavior of Intermediate Transverse Stiffeners Attached on Web Panels. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(3), 337-45 (2002).
Analysis of Shear Lag Anomaly in Box Girders. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(11), 1379-86 (2002).

Yoon, Dong Y.
Behavior of Intermediate Transverse Stiffeners Attached on Web Panels. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(3), 337-45 (2002).
Analysis of Shear Lag Anomaly in Box Girders. — Sung C. Lee, Chai H. Yoo, and Dong Y. Yoon; 128(11), 1379-86 (2002).

Yoshida, Yoshitaka
Wind-Induced Vibration and Control of Trans-Tokyo Bay Crossing Bridge. — Yozo Fujino and Yoshitaka Yoshida; 128(8), 1012-25 (2002).

You, L. H.
Analytical Method for Calculation of Deformations and Stresses of Wall Plates of Dry Gas Holders Under Pressure. — L. H. You, J. J. Zhang, H. B. Wu, and R. B. Sun; 128(1), 125-8 (2002).

Young, Ben
Tests of Channels Subjected to Combined Bending and Web Crippling. — Ben Young and Gregory J. Hancock; 128(3), 300-8 (2002).
Channel Columns Undergoing Local, Distortional, and Overall Buckling. — Ben Young and Jintang Yan; 128(6), 728-36 (2002).
Column Tests of Cold-Formed Steel Channels with Complex Stiffeners. — Jintang Yan and Ben Young; 128(6), 737-45 (2002).
Compression Tests of Stainless Steel Tubular Members. — Ben Young and Wibisono Hartono; 128(6), 754-61 (2002).

Yue, Qingrui
Shear Strength of Reinforced Concrete Columns Strengthened with Carbon-Fiber-Reinforced Plastic Sheet. — Lieping Ye, Qingrui Yue, Shuhong Zhao, and Quanwang Li; 128(12), 1527-34 (2002).

Yun, Seung-Yul
Seismic Performance Evaluation for Steel Moment Frames. — Seung-Yul Yun, Ronald O. Hamburger, C. Allin Cornell, and Douglas A. Foutch; 128(4), 534-45 (2002).

Yun, T. H.
Formula for Stiffness of Bolted-Joint Members with Sleeve and Its Applications. — Y. D. Kwon, Nam Seo Goo, T. H. Yun, and J. K. Park; 128(7), 951-5 (2002).

Yura, Joseph A.
Test Method for Determining the Shear Modulus of Elastomeric Bearings. — Cem Topkaya and Joseph A. Yura; 128(6), 797-805 (2002).
Parameters Influencing Performance of Elastomeric Bearings at Low Temperatures. — Ahmet Yakut and Joseph A. Yura; 128(8), 986-94 (2002).
Evaluation of Elastomeric Bearing Performance at Low Temperatures. — Ahmet Yakut and Joseph A. Yura; 128(8), 995-1002 (2002).

Zerwer, A.
Effect of Surface Cracks on Rayleigh Wave Propagation: An Experimental Study. — A. Zerwer, M. A. Polak, and J. C. Santamarina; 128(2), 240-8 (2002).

Zhang, J. J.
Analytical Method for Calculation of Deformations and Stresses of Wall Plates of Dry Gas Holders Under Pressure. — L. H. You, J. J. Zhang, H. B. Wu, and R. B. Sun; 128(1), 125-8 (2002).

Zhang, Yunfeng
Active Interaction Control of Tall Buildings Subjected to Near-Field Ground Motions. — Yunfeng Zhang and Wilfred D. Iwan; 128(1), 69-79 (2002).

Zhao, Jun
Redundancy in Residual Vectors for Missing Mass Effect in Coupled Modal Synthesis. — Jun Zhao and Abhinav Gupta; 128(9), 1231-5 (2002).

Zhao, Shuhong
Shear Strength of Reinforced Concrete Columns Strengthened with Carbon-Fiber-Reinforced Plastic Sheet. — Lieping Ye, Qingrui Yue, Shuhong Zhao, and Quanwang Li; 128(12), 1527-34 (2002).

Zhao, Xiao Ling
Fatigue Tests and Design of Thin Cold-Formed Square Hollow Section-to-Plate *T* Connections Under Cyclic In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao Ling Zhao, and Paul Grundy; 128(1), 22-31 (2002).

Zhao, Xiao-Ling
Void-Filled Cold-Formed Rectangular Hollow Section Braces Subjected to Large Deformation Cyclic Axial Loading. — Xiao-Ling Zhao, Raphael Grzebieta, and Chen Lee; 128(6), 746-53 (2002).
Fatigue Tests and Design of Welded T Connections in Thin Cold-Formed Square Hollow Sections

Under In-Plane Bending. — Fidelis Rutendo Mashiri, Xiao-Ling Zhao, and Paul Grundy; 128(11), 1413-22 (2002).

Zhao, Yan-Gang

Second-Order Third-Moment Reliability Method. — Yan-Gang Zhao, Tetsuro Ono, and Masahiro Kato; 128(8), 1087-90 (2002).

Zhou, Li

Neural Network Emulation of Inverse Dynamics for a Magnetorheological Damper. — Chih-Chen Chang and Li Zhou; 128(2), 231-9 (2002).

Zhou, Yin

Closure to "Equivalent Static Buffeting Loads on Structures" by Yin Zhou, Ahsan Kareem, and Ming Gu. — Yin Zhou, Ahsan Kareem, and Ming Gu; 128(3), 411-2 (2002).

Along-Wind Load Effects on Tall Buildings: Comparative Study of Major International Codes and Standards. — Yin Zhou, Tracy Kijewski, and Ahsan Kareem; 128(6), 788-96 (2002).

Definition of Wind Profiles in ASCE 7. — Yin Zhou and Ahsan Kareem; 128(8), 1082-6 (2002).

Zhou, Yingxin

Distributed Structural Damage Generated by High-Frequency Ground Motion. — Guowei Ma, Hong Hao, Yong Lu, and Yingxin Zhou; 128(3), 390-9 (2002).

Ziemian, Ronald D.

Modified Tangent Modulus Approach, A Contribution to Plastic Hinge Analysis. — Ronald D. Ziemian and William McGuire; 128(10), 1301-7 (2002).